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FINAL TECHNICAL REPORT

ASCENT TRAJECTORY DISPERSION ANALYSIS
FOR WTR HEADS-UP SPACE SHUTTLE
TRAJECTORY

CONTRACT NAS8-36196

MAY 1986

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PREPARED FOR:

GEORGE C. MARSHALL SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
MARSHALL SPACE FLIGHT CENTER, ALABAMA

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1. INTRODUCTION

This final report documents the results of a Space Transportation System ascent trajectory dispersion analysis performed by Dynetics, Inc., under contract to the Marshall Space Flight Center (MSFC) of the National Aeronautics and Space Administration (NASA). The purpose of this dispersion analysis is to provide critical trajectory parameter values for assessing the Space Shuttle in a "heads-up" configuration launched from the Western Test Range (WTR).

This analysis has been conducted using a trajectory profile based on a launch from the WTR in December. This trajectory has been used since it has been defined as a critical aerodynamic heating mission. The analysis has consisted of the following steps:

1. Nominal trajectories have been simulated under the conditions as specified by baseline reference mission guidelines.
2. Dispersion trajectories were simulated using predetermined parametric variations. Dispersion parameters were selected to represent system-related error sources stemming from propulsion uncertainties, aerodynamic errors, mass property inaccuracies, and guidance, navigation and control (GN&C) errors.
3. Requirements for a system-related composite trajectory were determined by a root-sum-square (RSS) analysis of the positive deviations between values of the aerodynamic heating indicator (AHI) generated by the dispersion and nominal trajectories.
4. Using the RSS assessment as a guideline, the system related composite trajectory was simulated by combinations of dispersion parameters which represented major contributors.
5. An assessment of environmental perturbations via a RSS analysis was made by the combination of $+2\sigma$ atmospheric density variation and 95% directional design wind dispersions. Unique wind directions were chosen to reflect critical heating conditions.

6. Maximum aerodynamic heating trajectories were simulated by variation of dispersion parameters which would emulate the summation of the system-related RSS and environmental RSS values of AHI. The maximum aerodynamic heating trajectories were simulated consistent with the directional winds used in the environmental analysis.

Trajectory parameters associated with the maximum aerodynamic heating trajectory cases, the system composite trajectories, and the RSS analysis were delivered as computer files to the Government. These files were generated on the MSFC MIPS VAX-1 computer system.

The following report provides a summary of the analysis and is subdivided in the same manner as the analysis steps. Section 2 describes the nominal trajectory requirements. These requirements are based on inputs provided by MSFC. Section 3 summarizes the parameters used in the dispersion analysis. Section 4 discusses the formulation of the system composite trajectories and the maximum aerodynamic heating trajectories. Several appendices are provided which present simulation input requirements, tabulated results from the various analyses, and plots of critical parameters.

2. NOMINAL TRAJECTORY REQUIREMENTS

Appendix A provides the input requirements and ground rules for the "heads-up" WTR nominal trajectory. These data requirements were used in the MSFC resident six-degree-of-freedom (6-DOF) STAR6D computer program to simulate the trajectories used in this analysis.

Verification of the baseline trajectory was performed by detailed comparison of trajectory parameters to the trajectory developed by the Shuttle Systems Integration Contractor, Rockwell International.

3. SYSTEM DISPERSION PARAMETERS

Tables 3-1 through 3-4 provide a summary of the parameters used in the system dispersion analysis. The tables also reflect the case ID numbers and the initial record location of each trajectory on the output file. In coordination with the Ascent Flight Systems Integration Panel (AFSIG) panel, the dispersions represent a 99% (2.33σ) variation for SRM and aerodynamic perturbations and 70% of 2.33σ for all other perturbations including SRM mass property dispersions. Using these dispersion values, simulations were made by the individual biasing of these parameters. Thus, each dispersion parameter was treated as an independent variation. Approximately 60 individual trajectories were simulated, and data from these simulations were stored on computer files.

Appendix C provides time-ordered histories of the AHI parameter, angle of attack, and sideslip angle as a function of the dispersion variations. The data in this appendix are presented as increments between the value obtained from the dispersion simulation and the nominal value (shown as the second column of these tables). The notation at the right upper corner of each table gives the name of the parameter; i.e., AHI, and the sign of the dispersion value increment used in the generation of the trajectory. The index numbers shown in Tables 3-1 through 3-4 correspond to the table headings in the Appendices.

Table 3-1. Propulsion Perturbations

Parameter	Dispersion Value	Index Number	Record Number	Case ID Number	Comments/ Assumptions
SRM Web Action Time (WAT)	+3.9%	1	201 401	1010 1011	Constant specific impulse
SRM Terminal Thrust Mismatch	Table 3-5	2	601 801	1020 1021	See Table 3-5
SRM Specific Impulse	+0.39%	3	1001 1201	1030 1031	Constant flowrate
SRM Steady-State Thrust Mismatch	65,000 lb (difference between SRBs)	4	1401 8001	1040 1041	Constant flowrate
SRM Specific Impulse Mismatch	+0.39%	5	7801 1601	1050 1051	Constant flowrate, one SRM low by Isp/2, other SRM high by Isp/2
SRM Thrust Vector Control	+0.410°	6 (pitch)	2201	1060	
	+0.410°	7 (yaw)	2001 2201	1061 1070	
SSME Vacuum Thrust	+5,673 lb (total)	8	2401 2601	1080 1081	Constant specific impulse
SSME Vacuum Specific Impulse	+0.722 s	9	2801 3001	1090 1091	Constant thrust
SSME Thrust Vector Misalignment	+0.582°	10 (pitch)	3201 3401	1100 1101	
	+0.337°	11 (yaw)	3601	1110	

Table 3-2. Aero/Environment Perturbations

Parameter	Dispersion Value	Index Number	Record Number	IVAR	Comments Assumptions
Aero Coefficients Forces and Moments (all axes)	+2.33 σ of aerodynamic variation	1 Axial force	3801 4001	2010 2011	Included in MSFC resident aerodynamic data base
		2 Normal force	4201 4401	2020 2021	
		3 Pitch moment	4601 4801	2030 2031	
		4 Side force	5001 5201	2040 2041	
		5 Yaw moment	5401 5601	2050 2051	
		6 Roll moment	5801 6001	2060 2061	
		7 Base force	6201 6401	2070 2071	
Atmosphere	+2 σ density	8 (+) Density (-) Density	6601 6801	2080 2081	Not used as system dispersion. Combined with wind dispersion to form environmental dispersion.

Table 3-3. Mass Property Perturbations

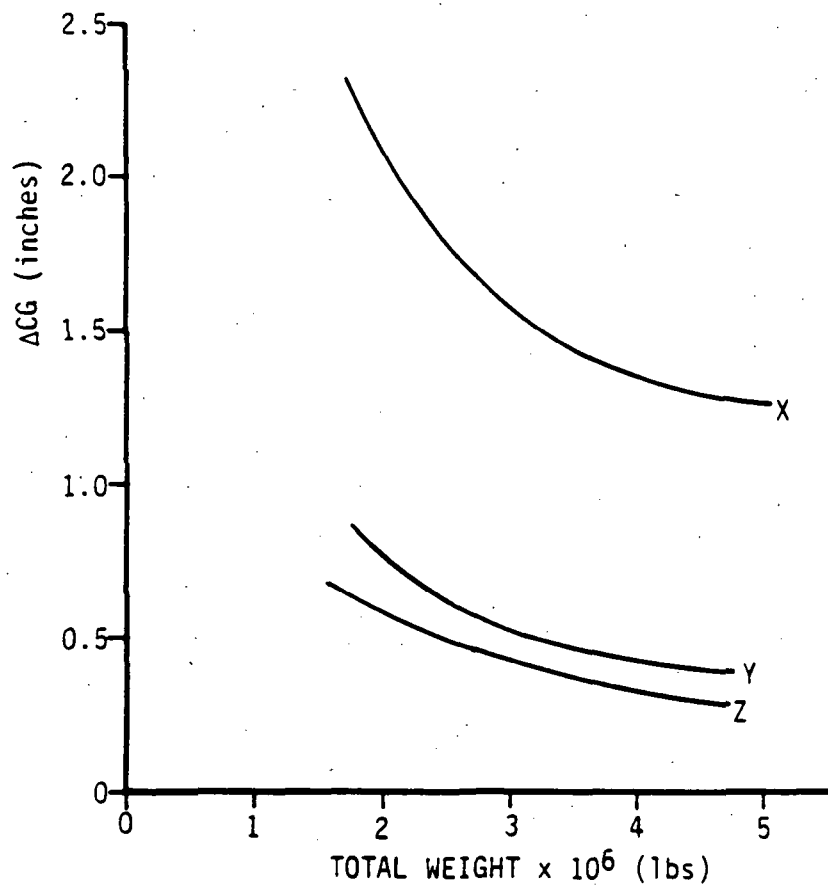
Parameter	Dispersion Value	Index Number	Record Number	Case ID Number	Comments/ Assumptions
External Tank (ET) Propellant Weight	LOX = 0.33% LH ₂ = 0.27% (+3294 lb)	1	7001 7201	3010 3011	Based on total ET loaded propellant with LOX = 6 LH ₂ (fuel bias corrected). Percentage errors are root-sum-squared (RSS) to obtain total perturbation.
SRM Propellant Weight	0.12 (+254.4 lb, total)	2	7401 7601	3020 3021	Based on total propellant loaded (two motors of 2,218,716 lbs)
SRM Inert Weight	--	3	N/A	N/A	Not used (does not appreciably affect aero heating).
2nd Stage Inert	--	4	N/A	N/A	Not used (does not appreciably affect aero heating).
Integrated Vehicle Center of Gravity Location	Variable, function of stage weight (see Figures 3-1 and 3-2)	5 (1st stage longitudinal) 6 (1st stage lateral) 7 (1st stage normal) 8 (2nd stage longitudinal) 9 (2nd stage normal)	8601 8801 9001 9201 9401 9601 9801 10001 10201 10401	3050 3051 3060 3061 3070 3071 3080 3081 3090 3091	

Table 3-4. GN&C Perturbations

Parameter	Dispersion Value	Index Number	Record Number	Case ID Number	Comments/Assumptions
Accelerometer Errors (normal, lateral)	Accuracy: Z = 0.01856 g's (normal) Y = 0.00983 g's (lateral)	1 (normal)	10601	4010	Applies to the "load relief" portion of 1st stage flight
	Alignment: Z = 0.15725° (normal) Y = 0.24133° (lateral)	2 (lateral)	10801 11001 11201	4011 4020 4021	
Rate Gyro Assembly (RGA) Error	Drift: Z = Y = 0.0857°/s	3 (normal)	11401	4030	Applied as a bias to the reference (θ , ψ versus V_{REL}) table; roll error is neglected.
		4 (lateral)	11601 11801 12001	4031 4040 4041	
IMU Platform Error	X = Y = Z = +0.273°	5 (pitch)	12201	4050	
		6 (yaw)	12401 12601 12801 13001 13201	4051 4060 4061 4070 4071	
MECO Targeting Errors	$\Delta V = +6.64$ fps $\Delta \gamma = +0.039^\circ$ $\Delta r = +1262.9$ ft $\Delta i = +0.056^\circ$	7 (roll)			
		8	13401 13601	4080 4081	

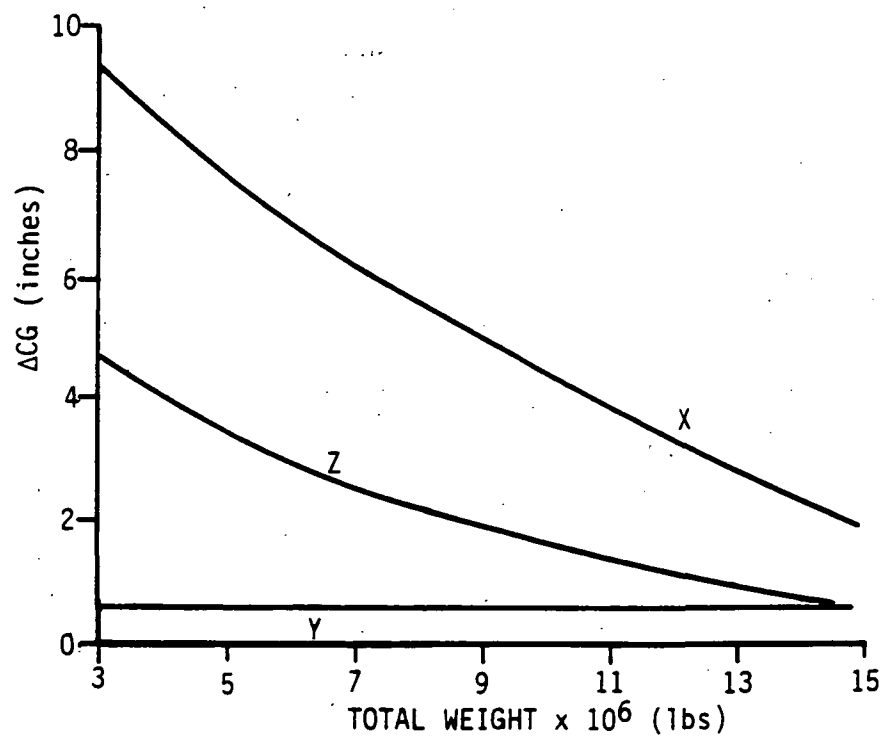
Table 3-5. SRB Thrust Terminal Mismatch Data

Time t	WTR					
	Left Motor			Right Motor		
	Pressure P_H (lb/ft ²)	Thrust (lbf) T_{vac}	Flow Rate (lb/s) \dot{W}	Pressure P_H (lb/ft ²)	Thrust (lbf) T_{vac}	Flow Rate (lb/s) \dot{W}
101.19	421.8	1,640,850	6,523.7	445.0	1,849,250	6,907.0
102.5	364.8	1,355,740	5,647.9	424.4	1,799,040	6,568.8
103.8	266.6	998,300	4,130.9	369.5	1,519,300	5,722.0
105.1	194.5	674,090	3,014.6	290.5	1,226,190	4,504.2
106.3	142.7	458,230	2,213.8	210.2	909,230	3,260.0
107.6	108.3	316,450	1,685.8	153.4	681,950	2,383.1
108.9	76.8	221,650	1,199.1	115.4	509,350	1,796.1
110.2	50.9	154,550	803.4	86.2	380,050	1,343.0
111.5	31.0	100,700	495.2	58.1	271,800	913.6
112.8	18.7	58,720	305.2	35.6	183,120	569.1
114.05	11.4	37,400	190.4	22.3	115,160	362.6
117.0	2.8	12,280	58.5	6.1	27,820	108.7
118.75	1.6	6,910	37.1	2.8	12,560	59.5



*Values used for this analysis reflect 70% of 2.33σ which results in multiplication of these values by a 0.54367 multiplication factor.

Figure 3-1. 1st Stage CG 3σ Uncertainties*



*Values used for this analysis reflect 70% of 2.33σ which results in multiplication of these values by a 0.54367 multiplication factor.

Figure 3-2. 2nd Stage CG 3σ Uncertainties*

4. FORMULATION OF MAXIMUM AERODYNAMIC HEATING TRAJECTORIES

The methodology used to define the maximum aerodynamic heating trajectories is a multistep process that combines system-related and environmental dispersions. After defining the system-related dispersions of Section 3, the first step of the process was to define a system composite trajectory. The system composite trajectory is defined as a trajectory that emulates an AHI time history determined by the summation of the nominal AHI history and the positive RSS AHI history for the system dispersions. The simulation of the system composite trajectory requires combining mixtures of dispersion parameters in such a manner to match the summed AHI history. Table 4-1 identifies the combinations of parameters that were used to define the system composite trajectory. Figure 4-1 presents a plot of AHI versus time that represents the nominal trajectory, the plus and minus RSS deviation about the nominal, and the system composite trajectory. In this analysis, the comparative matching was made with respect to the AHI parameter only; and therefore, does not necessarily result in being within or upon the dispersion limits of other parameters. Figures 4-2 through 4-6 provide plots of several critical parameters plotted in the same manner as AHI.

Table 4-1. System Composite Parameters

+SRM Thrust Vector Misalignment (Pitch) (2.33σ)
+SSME Vacuum Thrust (70% of 2.33σ)
-IMU Platform Error (Pitch) (70% of 2.33σ)

The definition of environmental dispersions was the second step of the process. Parameters used to define the environmental dispersions consist of $\pm 2\sigma$ atmospheric density variations and directional 95% design

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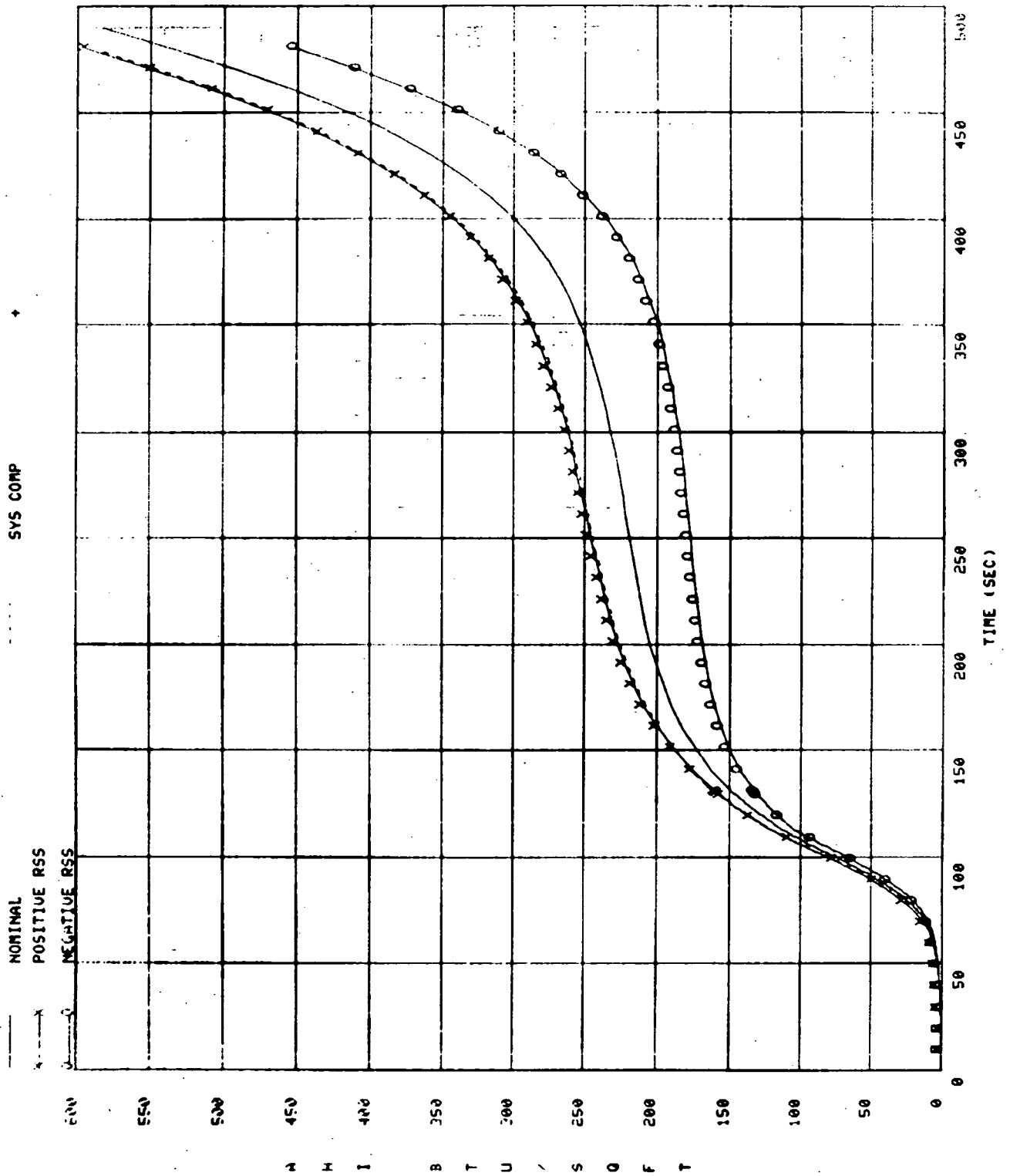


Figure 4-1. AH1 History for System Composite Trajectory

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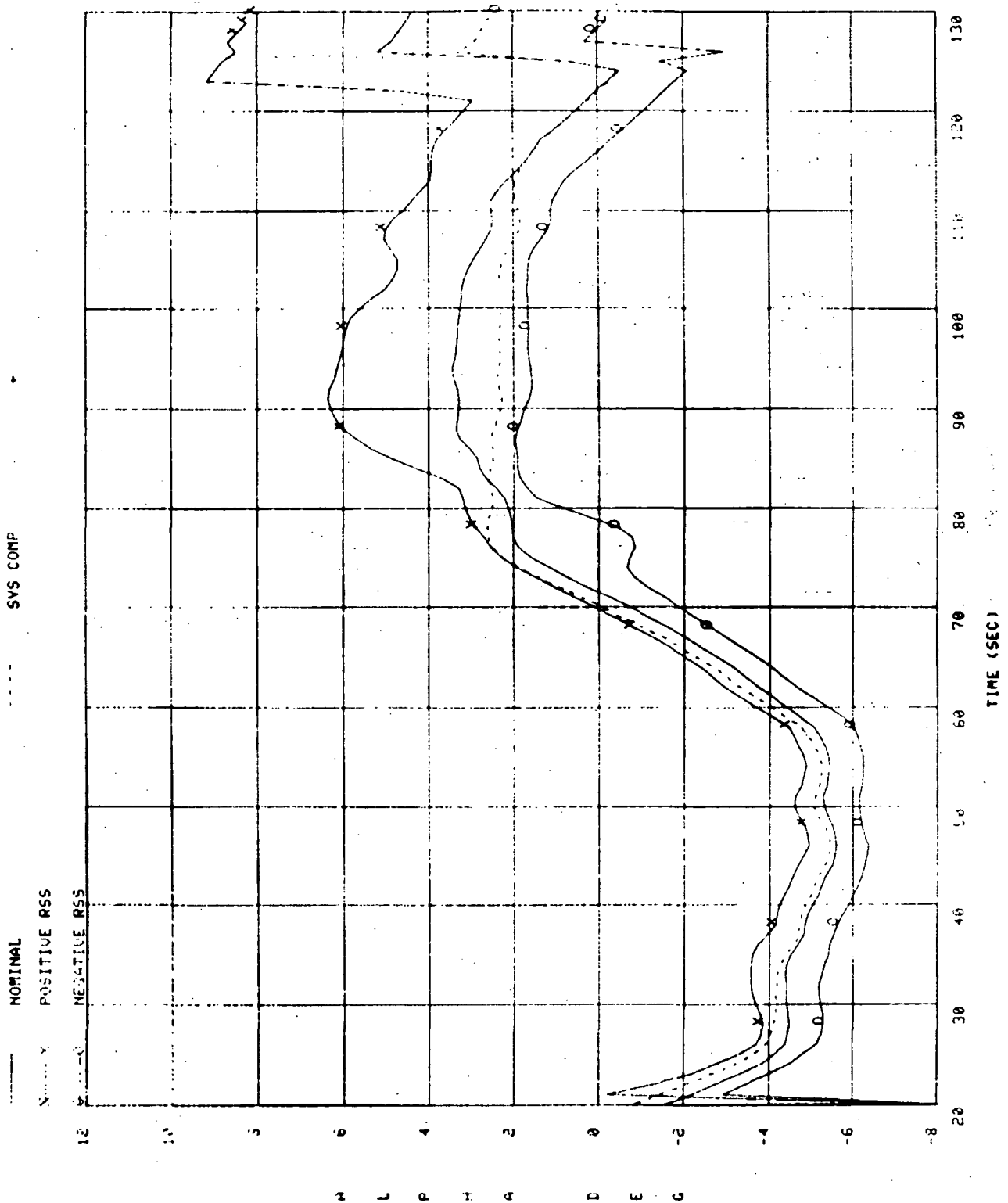


Figure 4-2. System Composite Angle of Attack History Comparison

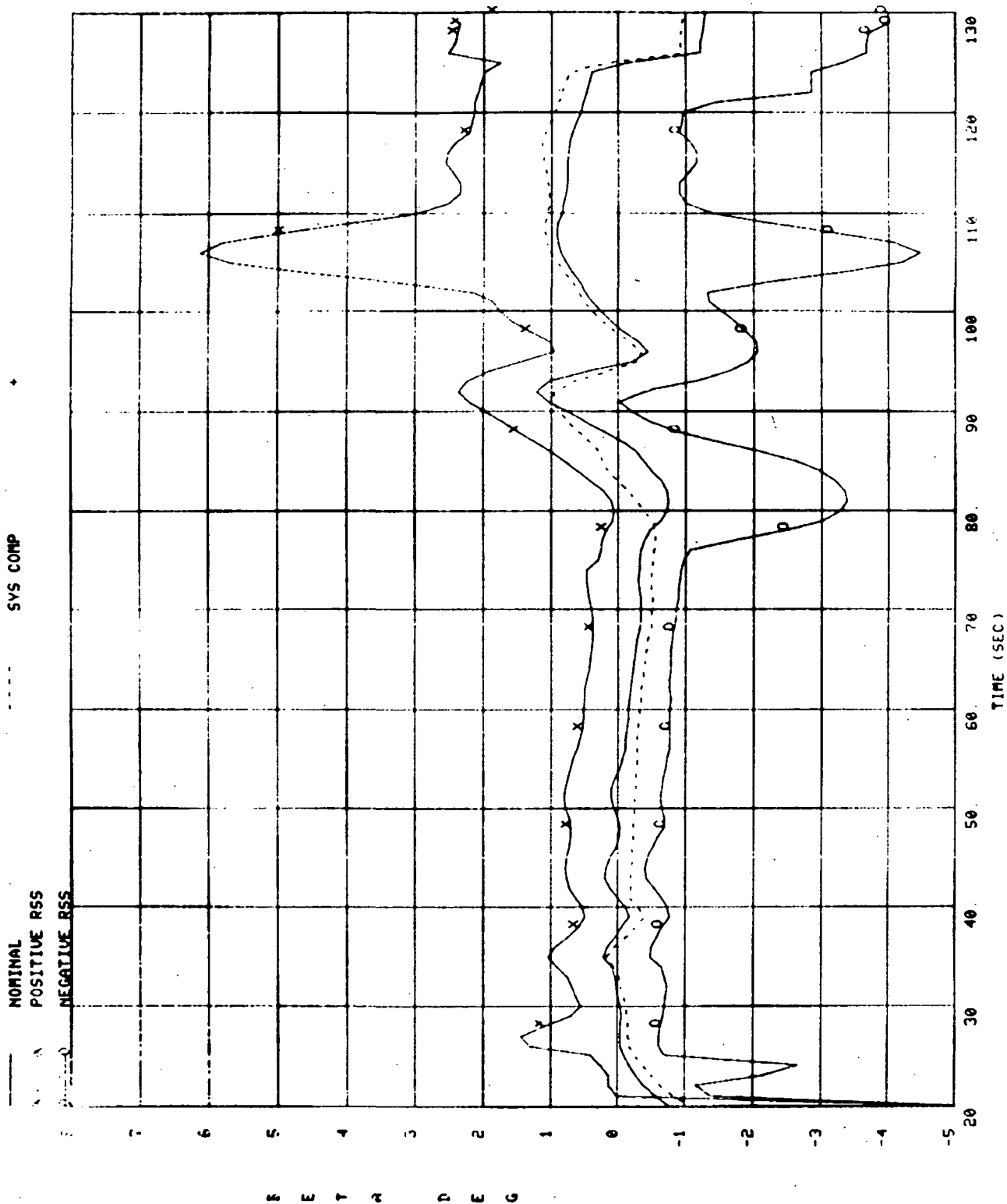


Figure 4-3. System Composite Sideslip Angle History Comparison

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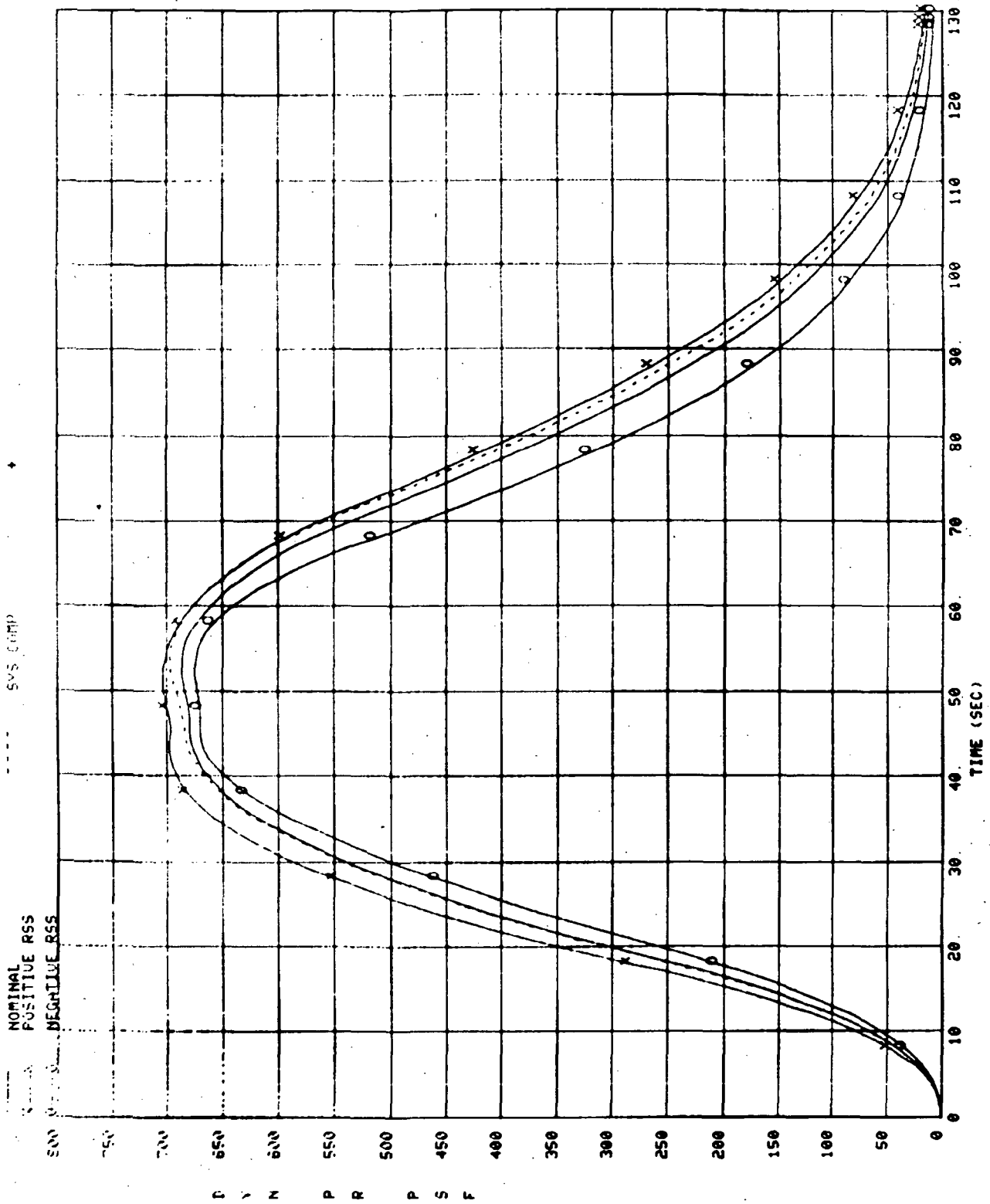


Figure 4-4. System Composite Dynamic Pressure History Comparison

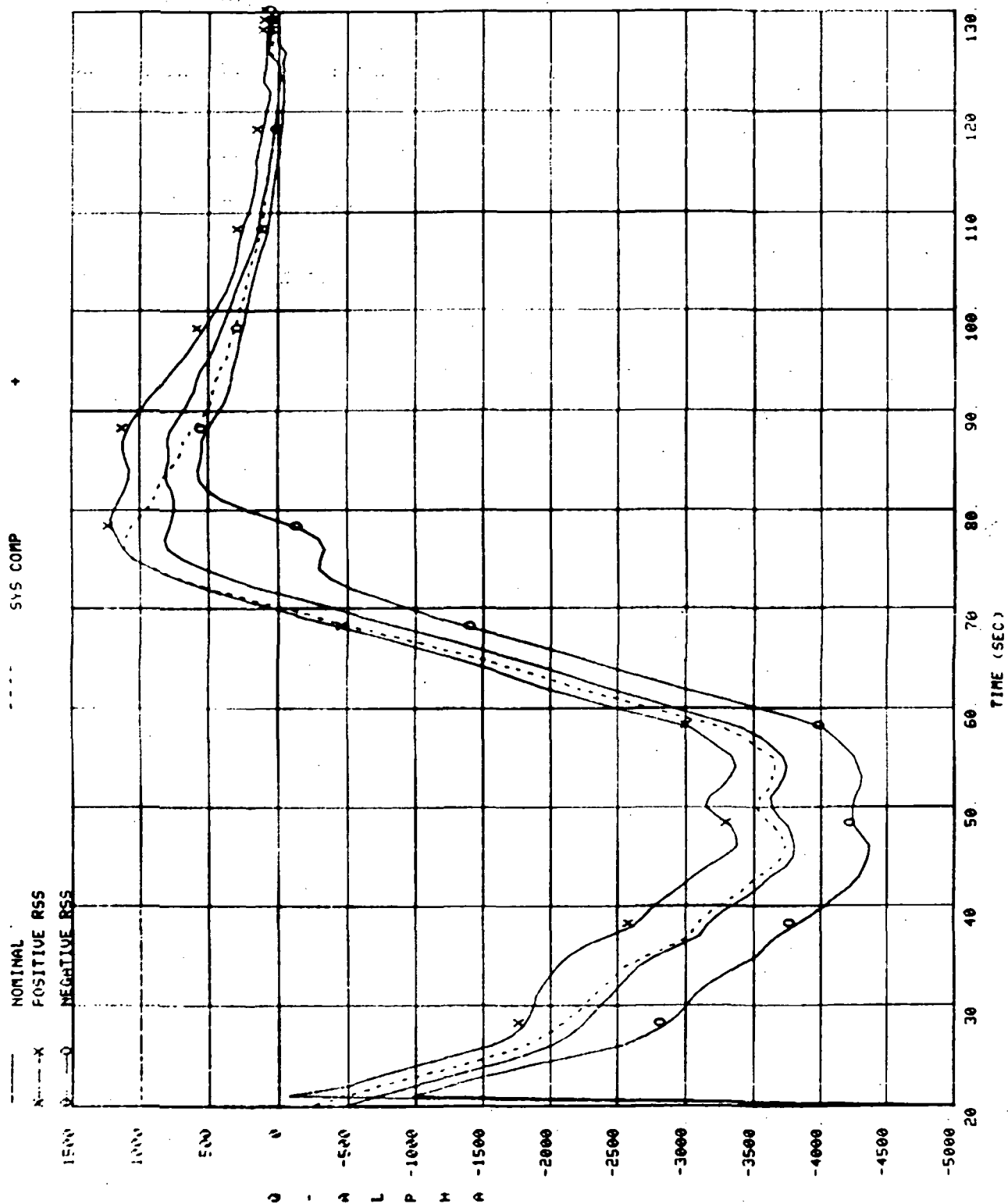


Figure 4-5. System Composite Q-Alpha History Comparison

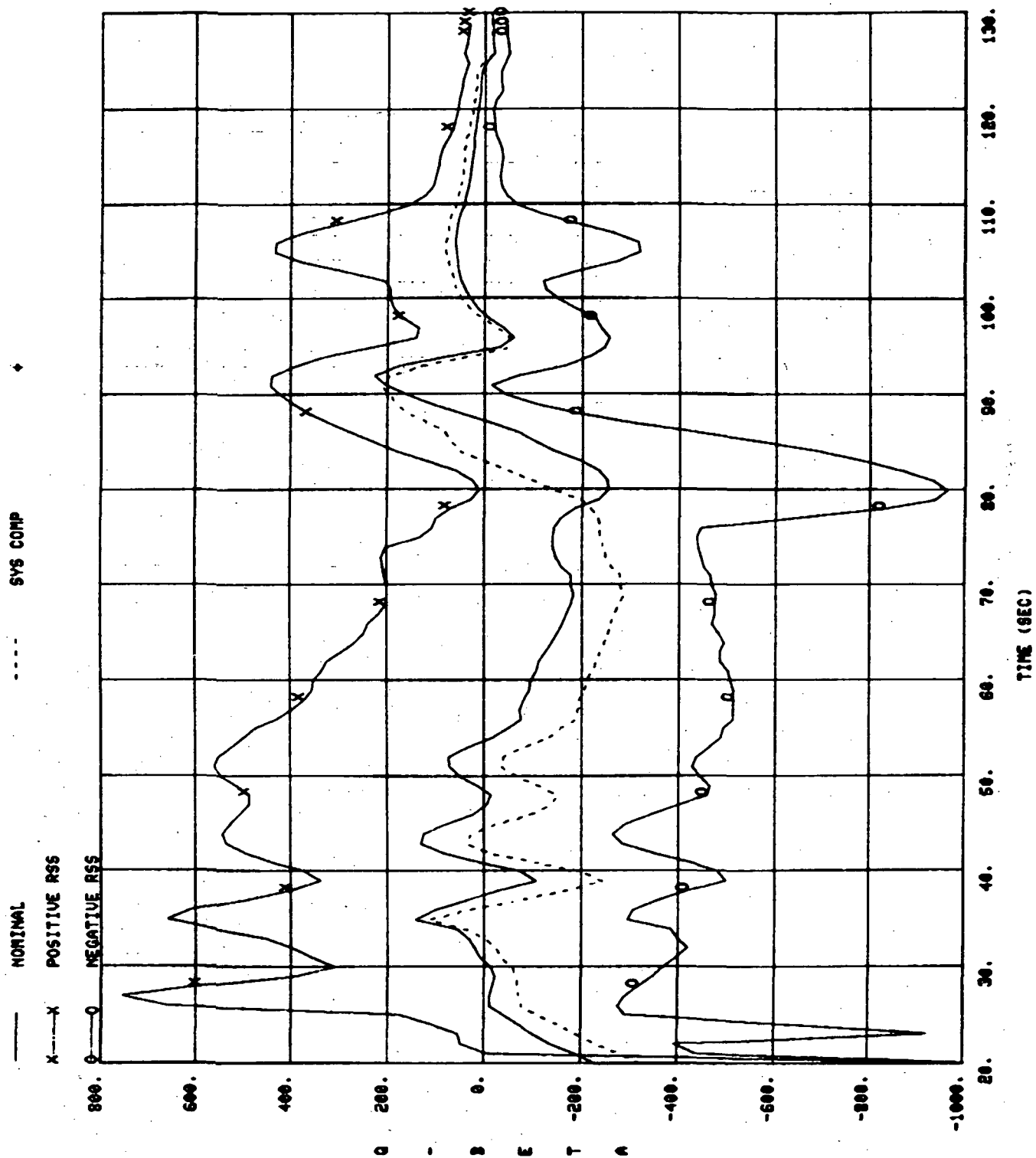


Figure 4-6. System Composite Q-Beta History Comparison

wind histories (supplied by the Systems Dynamics Laboratory of MSFC). For this analysis, a right quartering head wind (RQHW) and a head wind (HW) were chosen as wind dispersion candidates since they would result in critical aerodynamic heating cases. Use of the two wind histories resulted in the requirement for two environmental composites. Each composite consisted of a RSS assessment of the combination of atmospheric density and directional wind dispersions.

The guidelines for defining the maximum aerodynamic heating trajectory were based upon the addition of the system-dependent RSS assessment of AHI and the environmental RSS AHI values. The simulation of the maximum aerodynamic heating trajectories consisted of combining the system-related composite trajectory and the environmental dispersions in a manner that reflected the accumulative sum of these two root sum squared values. Table 4-2 identifies the parameters that were used in the construction of these maximum heat trajectories. Figures 4-7 and 4-8 present plots of the nominal trajectory, the +RSS system dispersion, the addition of the environmental RSS to the system dispersion, and the simulated maximum aerodynamic heating trajectories.

Table 4-2. Maximum Aerodynamic Heating Trajectory Parameters

RQHW Case
+SRM Thrust Vector Misalignment (Pitch) (2.33 σ)
+SSME Vacuum Thrust (70% of 2.33 σ)
-IMU Platform Error (Pitch) (70% of 2.33 σ)
HW Case
IMU Platform Error (Pitch) (70% of 2.33 σ)

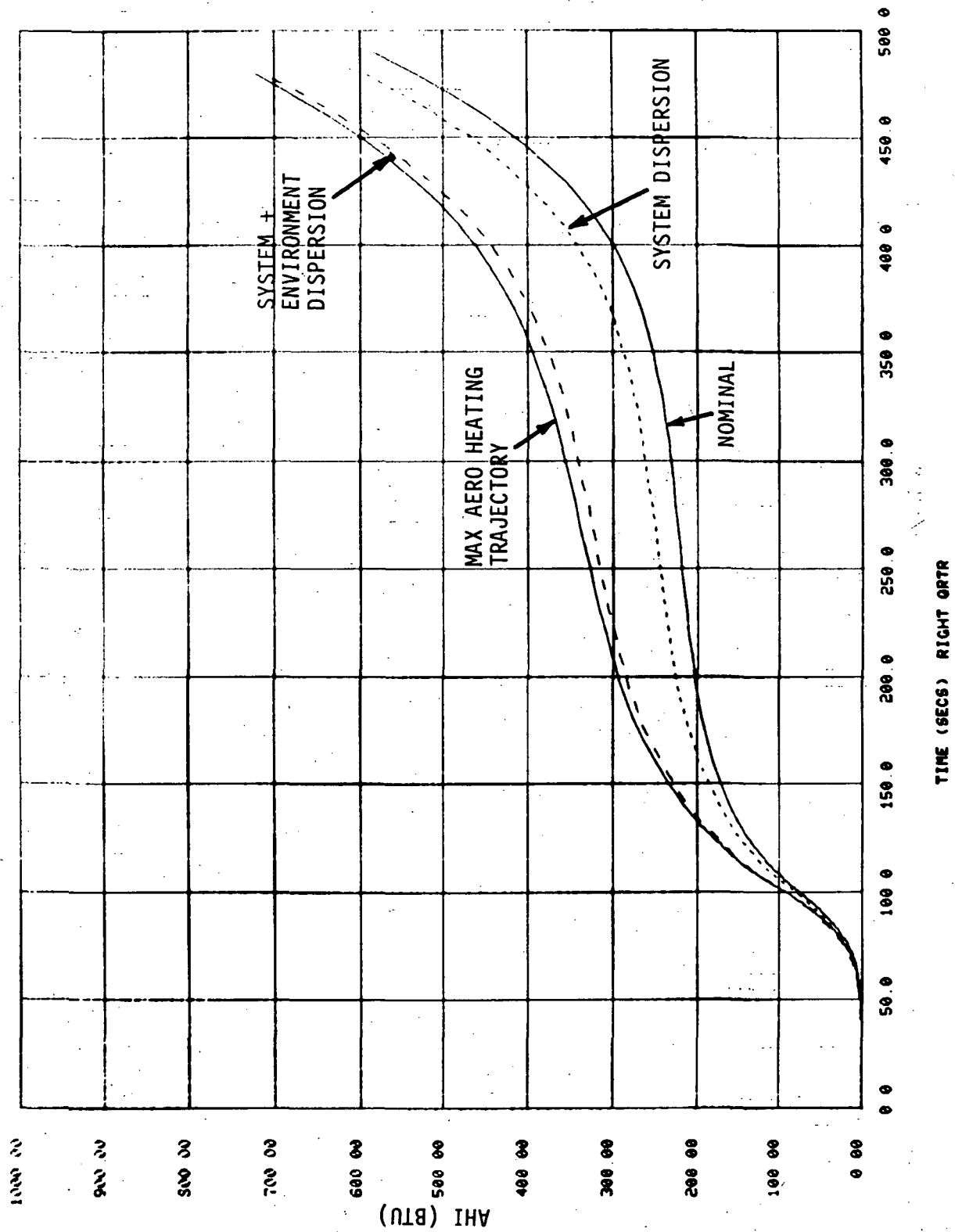


Figure 4-7. AHI History for Maximum Aero Heating Trajectory with RQHW

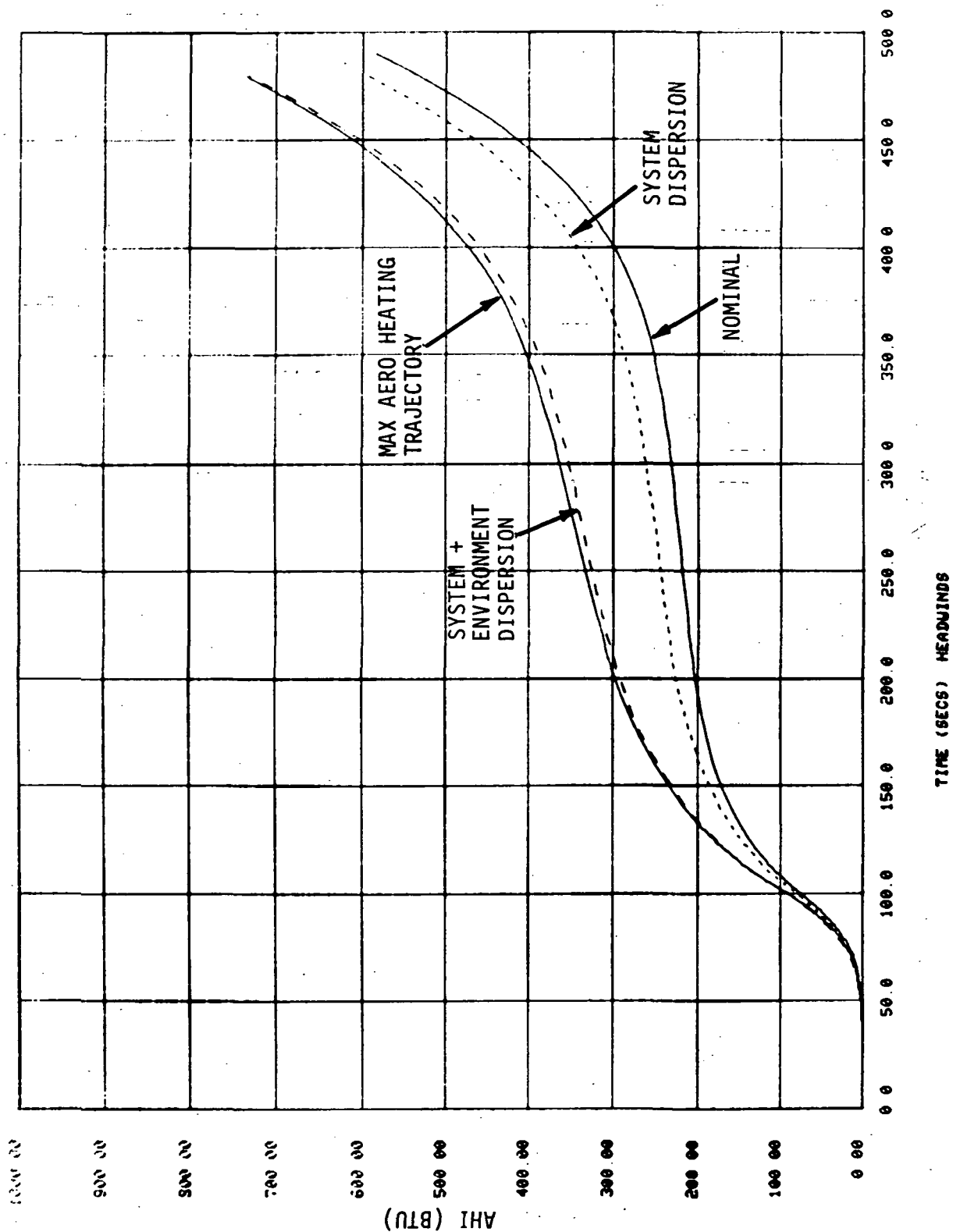


Figure 4-8. AHI History for Maximum Aero Heating Trajectory with HW

Tables 4-3 and 4-4 provide time histories of the AHI parameter for the two maximum aerodynamic heating trajectories. These tables also contain an overview of the system composite, system RSS dispersion, environmental dispersions and RSS values, and the summed RSS used for the guidelines of the maximum aerodynamic heating trajectory.

Output of this study for purposes of aerodynamic heating evaluation has been prepared and is shown in Appendix D. These data have been prepared by combining the maximum aerodynamic heating trajectory parameters with the +RSS system-related dispersions.

Trajectory parameters for the systems composite and the maximum aerodynamic heating trajectories are also stored on a computer file in the same manner as the dispersion trajectories (see Appendix B).

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind

COMPOSITE							AHI		
TIME	NOMINAL VALUE	SYSTEM COMP	+RSS	ATMOS	ENVIRONMENT HW	+RSS	MAXIMUM +RSS	HEATING DISP	TRAJ VALUE
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
21.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
22.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
23.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
24.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2
25.0	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2
26.0	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2
27.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.3
28.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.3
29.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.4
30.0	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.4
31.0	0.5	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.5
32.0	0.5	0.0	0.1	0.0	0.0	0.1	0.2	0.0	0.5
33.0	0.6	0.0	0.1	0.1	0.0	0.1	0.2	0.0	0.6
34.0	0.7	0.0	0.2	0.1	0.0	0.1	0.2	0.0	0.7
35.0	0.7	0.0	0.2	0.1	0.0	0.1	0.2	0.0	0.8
36.0	0.8	0.0	0.2	0.1	0.0	0.1	0.3	0.0	0.9
37.0	0.9	0.0	0.2	0.1	0.0	0.1	0.3	0.0	1.0
38.0	1.0	0.0	0.2	0.1	0.0	0.1	0.3	0.1	1.1
39.0	1.1	0.0	0.2	0.1	0.1	0.1	0.3	0.1	1.2
40.0	1.2	0.0	0.2	0.1	0.1	0.1	0.4	0.1	1.3
41.0	1.3	0.0	0.3	0.1	0.1	0.1	0.4	0.1	1.4
42.0	1.4	0.0	0.3	0.1	0.1	0.1	0.4	0.1	1.5
43.0	1.5	0.0	0.3	0.1	0.1	0.1	0.4	0.1	1.7
44.0	1.7	0.0	0.3	0.1	0.1	0.2	0.5	0.2	1.8
45.0	1.8	0.0	0.3	0.1	0.2	0.2	0.5	0.2	2.0
46.0	1.9	0.0	0.3	0.1	0.2	0.2	0.5	0.2	2.1
47.0	2.1	0.0	0.4	0.1	0.2	0.2	0.6	0.3	2.3
48.0	2.2	0.0	0.4	0.1	0.2	0.3	0.6	0.3	2.5
49.0	2.4	0.0	0.4	0.1	0.3	0.3	0.7	0.3	2.7

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Continued)

COMPOSITE										AHI
TIME	NOMINAL VALUE	SYSTEM COMP	+RSS	ATMOS	ENVIRONMENT HW	+RSS	MAXIMUM +RSS	HEATING DISP	TRAJ VALUE	
50.0	2.5	0.0	0.4	0.1	0.3	0.3	0.8	0.4	2.9	
51.0	2.7	0.0	0.5	0.1	0.4	0.4	0.8	0.4	3.1	
52.0	2.9	0.0	0.5	0.1	0.4	0.4	0.9	0.5	3.4	
53.0	3.1	0.1	0.5	0.1	0.5	0.5	1.0	0.6	3.6	
54.0	3.3	0.1	0.6	0.1	0.5	0.5	1.1	0.6	3.9	
55.0	3.5	0.1	0.6	0.1	0.6	0.6	1.2	0.7	4.2	
56.0	3.8	0.1	0.7	0.1	0.7	0.7	1.3	0.8	4.5	
57.0	4.0	0.1	0.7	0.1	0.7	0.7	1.5	0.9	4.9	
58.0	4.3	0.1	0.8	0.1	0.8	0.8	1.6	1.0	5.3	
59.0	4.7	0.1	0.9	0.0	0.9	0.9	1.7	1.0	5.7	
60.0	5.0	0.1	1.0	0.0	0.9	0.9	1.9	1.1	6.1	
61.0	5.4	0.2	1.1	0.0	1.0	1.0	2.0	1.2	6.6	
62.0	5.8	0.2	1.2	0.0	1.1	1.1	2.2	1.3	7.2	
63.0	6.3	0.2	1.3	0.0	1.1	1.1	2.4	1.4	7.7	
64.0	6.8	0.2	1.4	0.0	1.2	1.2	2.6	1.5	8.4	
65.0	7.4	0.3	1.5	0.0	1.3	1.3	2.8	1.6	9.1	
66.0	8.1	0.3	1.6	0.0	1.4	1.4	3.0	1.7	9.8	
67.0	8.7	0.3	1.8	0.0	1.4	1.4	3.2	1.9	10.6	
68.0	9.5	0.4	1.9	0.0	1.5	1.5	3.5	2.0	11.5	
69.0	10.3	0.4	2.1	0.0	1.6	1.6	3.7	2.1	12.5	
70.0	11.2	0.5	2.3	0.0	1.7	1.7	4.0	2.3	13.5	
71.0	12.2	0.5	2.5	0.0	1.8	1.8	4.2	2.4	14.6	
72.0	13.3	0.6	2.6	0.0	1.9	1.9	4.5	2.5	15.8	
73.0	14.4	0.6	2.8	0.0	2.0	2.0	4.8	2.7	17.1	
74.0	15.7	0.7	3.0	0.0	2.1	2.1	5.1	2.9	18.5	
75.0	17.0	0.8	3.2	0.0	2.2	2.2	5.3	3.1	20.1	
76.0	18.4	0.9	3.4	0.0	2.3	2.3	5.6	3.3	21.7	
77.0	19.9	0.9	3.5	0.0	2.4	2.4	6.0	3.5	23.4	
78.0	21.5	1.0	3.7	0.0	2.6	2.6	6.3	3.7	25.2	
79.0	23.2	1.1	3.8	0.0	2.8	2.8	6.6	4.0	27.2	
80.0	24.9	1.2	4.0	0.0	2.9	2.9	6.9	4.3	29.2	
81.0	26.8	1.3	4.1	0.0	3.1	3.1	7.3	4.6	31.4	
82.0	28.7	1.5	4.3	0.0	3.3	3.3	7.6	4.9	33.7	
83.0	30.7	1.6	4.4	0.0	3.6	3.6	8.0	5.3	36.0	
84.0	32.8	1.7	4.5	0.0	3.8	3.8	8.3	5.7	38.5	
85.0	35.0	1.9	4.6	0.0	4.1	4.1	8.7	6.1	41.1	
86.0	37.3	2.0	4.7	0.0	4.4	4.4	9.1	6.5	43.8	
87.0	39.6	2.2	4.8	0.0	4.7	4.7	9.5	7.0	46.6	
88.0	42.0	2.3	4.9	0.1	5.1	5.1	10.0	7.5	49.5	
89.0	44.5	2.5	5.0	0.1	5.5	5.5	10.4	8.1	52.6	
90.0	47.0	2.7	5.1	0.1	5.9	5.9	10.9	8.7	55.7	
91.0	49.6	2.8	5.1	0.1	6.3	6.3	11.4	9.3	58.9	
92.0	52.3	3.0	5.2	0.2	6.8	6.8	12.0	10.0	62.3	
93.0	55.0	3.2	5.3	0.2	7.3	7.3	12.5	10.7	65.7	
94.0	57.8	3.4	5.3	0.3	7.8	7.8	13.1	11.4	69.2	
95.0	60.6	3.6	5.4	0.3	8.3	8.3	13.7	12.2	72.8	
96.0	63.5	3.9	5.5	0.4	8.9	8.9	14.4	13.0	76.5	
97.0	66.4	4.1	5.5	0.4	9.6	9.6	15.1	13.8	80.3	
98.0	69.4	4.3	5.6	0.5	10.2	10.2	15.8	14.7	84.1	
99.0	72.4	4.5	5.7	0.6	10.9	10.9	16.6	15.7	88.1	

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Continued)

COMPOSITE										AHI
TIME	NOMINAL VALUE	SYSTEM COMP	+RSS	ATMOS	ENVIRONMENT HW	+RSS	MAXIMUM +RSS	HEATING DISP	TRAJ VALUE	
100.0	75.4	4.8	5.8	0.7	11.7	11.7	17.4	16.7	92.1	
101.0	78.5	5.0	5.8	0.8	12.4	12.5	18.3	17.7	96.2	
102.0	81.6	5.3	5.9	0.9	13.2	13.3	19.2	18.8	100.4	
103.0	84.7	5.5	6.0	1.0	14.1	14.1	20.1	19.9	104.6	
104.0	87.8	5.8	6.2	1.1	14.9	14.9	21.1	21.0	108.8	
105.0	90.8	6.0	6.4	1.2	15.8	15.8	22.2	22.2	113.0	
106.0	93.9	6.3	6.6	1.3	16.6	16.7	23.3	23.3	117.2	
107.0	96.8	6.5	6.9	1.4	17.5	17.5	24.4	24.5	121.3	
108.0	99.7	6.8	7.1	1.5	18.4	18.4	25.5	25.6	125.4	
109.0	102.5	7.0	7.3	1.6	19.2	19.3	26.6	26.8	129.3	
110.0	105.3	7.3	7.5	1.7	20.1	20.1	27.6	27.9	133.2	
111.0	107.9	7.5	7.7	1.8	20.9	21.0	28.7	29.1	137.0	
112.0	110.5	7.7	7.9	1.9	21.7	21.8	29.7	30.2	140.7	
113.0	113.1	8.0	8.1	2.0	22.5	22.6	30.7	31.2	144.3	
114.0	115.5	8.2	8.3	2.1	23.3	23.4	31.7	32.3	147.8	
115.0	117.9	8.4	8.5	2.1	24.1	24.2	32.7	33.3	151.2	
116.0	120.2	8.6	8.7	2.2	24.8	24.9	33.7	34.3	154.5	
117.0	122.5	8.8	8.9	2.3	25.6	25.7	34.6	35.3	157.8	
118.0	124.6	9.0	9.1	2.4	26.3	26.4	35.5	36.3	161.0	
119.0	126.8	9.2	9.3	2.5	27.0	27.2	36.4	37.3	164.1	
120.0	128.9	9.4	9.5	2.6	27.7	27.9	37.3	38.3	167.1	
121.0	130.9	9.6	9.6	2.7	28.4	28.6	38.2	39.2	170.1	
122.0	132.9	9.8	9.8	2.8	29.1	29.2	39.1	40.2	173.0	
123.0	134.8	10.0	10.0	2.9	29.8	29.9	39.9	41.1	175.9	
124.0	136.6	10.2	10.2	3.0	30.4	30.6	40.8	42.0	178.7	
125.0	138.5	10.4	10.3	3.1	31.1	31.2	41.6	42.9	181.4	
126.0	140.3	10.6	10.5	3.2	31.7	31.9	42.4	43.8	184.0	
127.0	142.0	10.8	10.7	3.2	32.3	32.5	43.2	44.7	186.7	
128.0	143.7	11.0	10.9	3.3	33.0	33.1	44.0	45.5	189.2	
129.0	145.3	11.2	11.0	3.4	33.6	33.7	44.8	46.4	191.7	
130.0	147.0	11.4	11.2	3.5	34.2	34.4	45.6	47.2	194.2	
140.0	161.1	13.3	13.1	4.2	40.0	40.2	53.3	55.3	216.5	
150.0	172.5	14.9	14.9	5.0	45.3	45.6	60.5	62.8	235.3	
160.0	181.8	16.5	16.8	6.2	50.3	50.7	67.5	69.8	251.6	
170.0	189.1	18.0	18.5	7.1	55.3	55.8	74.3	76.9	266.0	
180.0	195.0	19.4	20.0	7.7	59.7	60.2	80.1	83.3	278.3	
190.0	199.8	20.5	21.3	7.9	63.4	63.9	85.2	88.9	288.8	
200.0	204.0	21.5	22.4	8.0	66.7	67.2	89.6	93.9	298.0	
210.0	207.7	22.5	23.5	8.1	69.8	70.2	93.7	98.5	306.2	
220.0	210.8	23.4	24.5	8.1	72.7	73.1	97.6	102.9	313.7	
230.0	213.6	24.2	25.3	8.1	75.4	75.9	101.2	107.1	320.7	
240.0	216.2	25.0	26.1	8.1	77.9	78.3	104.4	111.1	327.3	
250.0	218.7	25.7	26.8	8.1	80.2	80.6	107.4	114.7	333.4	
260.0	221.2	26.4	27.5	8.1	82.3	82.7	110.3	118.2	339.3	
270.0	223.7	27.1	28.2	8.1	84.4	84.8	113.0	121.5	345.2	
280.0	226.3	27.7	28.9	8.1	86.5	86.9	115.7	124.8	351.1	
290.0	229.0	28.4	29.5	8.2	88.6	88.9	118.5	128.1	357.1	
300.0	232.0	29.1	30.3	8.2	90.6	91.0	121.3	131.4	363.4	
310.0	235.3	29.8	31.0	8.2	92.8	93.1	124.1	134.8	370.1	
320.0	238.9	30.6	31.8	8.2	95.0	95.4	127.2	138.3	377.2	

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Concluded)

COMPOSITE										AHI
TIME	NOMINAL VALUE	SYSTEM COMP	+RSS	ATMOS	ENVIRONMENT HW	+RSS	MAXIMUM +RSS	HEATING DISP	TRAJ VALUE	
330.0	243.0	31.5	32.7	8.2	97.4	97.7	130.5	142.0	385.0	
340.0	247.7	32.5	33.8	8.2	99.9	100.2	134.0	145.8	393.6	
350.0	253.2	33.5	34.9	8.2	102.5	102.9	137.7	149.9	403.1	
360.0	259.6	34.7	36.1	8.3	105.3	105.7	141.8	154.2	413.8	
370.0	267.1	35.9	37.4	8.3	108.3	108.7	146.1	158.7	425.8	
380.0	276.1	37.3	38.9	8.3	111.5	111.8	150.7	163.4	439.6	
390.0	286.9	38.8	40.5	8.3	114.8	115.1	155.6	168.3	455.3	
400.0	299.9	40.4	42.2	8.3	118.2	118.5	160.7	173.4	473.3	
410.0	315.5	42.1	44.1	8.3	121.7	122.0	166.1	178.4	493.9	
420.0	334.3	43.9	46.2	8.3	125.2	125.5	171.7	183.4	517.7	
430.0	356.8	45.8	48.4	8.3	128.5	128.8	177.2	188.2	544.9	
440.0	383.4	47.6	50.6	8.3	131.6	131.9	182.5	192.5	575.9	
450.0	414.4	49.2	52.8	8.3	134.3	134.5	187.3	196.1	610.6	
460.0	450.1	50.7	54.8	8.3	136.4	136.7	191.5	199.0	649.1	
470.0	490.3	51.9	56.7	8.2	138.1	138.3	195.0	201.2	691.5	
480.0	535.0	52.9	58.3	8.2	139.3	139.6	197.9	202.6	737.6	

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind

COMPOSITE										AHI
TIME	NOMINAL VALUE	SYSTEM COMP	+RSS	ATMOS	ENVIRONMENT RGHW	+RSS	MAXIMUM +RSS	HEATING DISP	TRAJ VALUE	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
20.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
21.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
22.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
23.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	
24.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	
25.0	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2	
26.0	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2	
27.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.3	
28.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.3	
29.0	0.3	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.4	
30.0	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.4	
31.0	0.5	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.5	
32.0	0.5	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.5	
33.0	0.6	0.0	0.1	0.1	0.0	0.1	0.2	0.0	0.6	
34.0	0.7	0.0	0.2	0.1	0.0	0.1	0.2	0.0	0.7	
35.0	0.7	0.0	0.2	0.1	0.0	0.1	0.2	0.0	0.8	
36.0	0.8	0.0	0.2	0.1	0.0	0.1	0.3	0.0	0.8	
37.0	0.9	0.0	0.2	0.1	0.0	0.1	0.3	0.0	0.9	
38.0	1.0	0.0	0.2	0.1	0.0	0.1	0.3	0.0	1.0	
39.0	1.1	0.0	0.2	0.1	0.0	0.1	0.3	0.0	1.1	
40.0	1.2	0.0	0.2	0.1	0.1	0.1	0.3	0.1	1.3	
41.0	1.3	0.0	0.3	0.1	0.1	0.1	0.4	0.1	1.4	
42.0	1.4	0.0	0.3	0.1	0.1	0.1	0.4	0.1	1.5	
43.0	1.5	0.0	0.3	0.1	0.1	0.1	0.4	0.1	1.6	
44.0	1.7	0.0	0.3	0.1	0.1	0.2	0.5	0.1	1.8	
45.0	1.8	0.0	0.3	0.1	0.1	0.2	0.5	0.2	1.9	
46.0	1.9	0.0	0.3	0.1	0.2	0.2	0.5	0.2	2.1	
47.0	2.1	0.0	0.4	0.1	0.2	0.2	0.6	0.2	2.3	
48.0	2.2	0.0	0.4	0.1	0.2	0.2	0.6	0.2	2.5	
49.0	2.4	0.0	0.4	0.1	0.3	0.3	0.7	0.3	2.6	

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Continued)

COMPOSITE							AHI		
TIME	NOMINAL VALUE	SYSTEM COMP	+RSS	ENVIRONMENT ATMOS	RQHW	+RSS	MAXIMUM +RSS	HEATING DISP	TRAJ VALUE
50.0	2.5	0.0	0.4	0.1	0.3	0.3	0.7	0.3	2.9
51.0	2.7	0.0	0.5	0.1	0.3	0.4	0.8	0.4	3.1
52.0	2.9	0.0	0.5	0.1	0.4	0.4	0.9	0.4	3.3
53.0	3.1	0.1	0.5	0.1	0.4	0.5	1.0	0.5	3.6
54.0	3.3	0.1	0.6	0.1	0.5	0.5	1.1	0.6	3.8
55.0	3.5	0.1	0.6	0.1	0.6	0.6	1.2	0.6	4.1
56.0	3.8	0.1	0.7	0.1	0.6	0.6	1.3	0.7	4.4
57.0	4.0	0.1	0.7	0.1	0.7	0.7	1.4	0.8	4.8
58.0	4.3	0.1	0.8	0.1	0.7	0.7	1.5	0.8	5.2
59.0	4.7	0.1	0.9	0.0	0.8	0.8	1.7	0.9	5.6
60.0	5.0	0.1	1.0	0.0	0.9	0.9	1.8	1.0	6.0
61.0	5.4	0.2	1.1	0.0	0.9	0.9	2.0	1.1	6.5
62.0	5.8	0.2	1.2	0.0	1.0	1.0	2.2	1.2	7.0
63.0	6.3	0.2	1.3	0.0	1.1	1.1	2.4	1.3	7.6
64.0	6.8	0.2	1.4	0.0	1.2	1.2	2.5	1.4	8.2
65.0	7.4	0.3	1.5	0.0	1.2	1.2	2.8	1.5	8.9
66.0	8.1	0.3	1.6	0.0	1.3	1.3	3.0	1.6	9.7
67.0	8.7	0.3	1.8	0.0	1.4	1.4	3.2	1.7	10.5
68.0	9.5	0.4	1.9	0.0	1.5	1.5	3.4	1.9	11.4
69.0	10.3	0.4	2.1	0.0	1.6	1.6	3.7	2.0	12.4
70.0	11.2	0.5	2.3	0.0	1.7	1.7	4.0	2.2	13.4
71.0	12.2	0.5	2.5	0.0	1.8	1.8	4.2	2.3	14.5
72.0	13.3	0.6	2.6	0.0	1.9	1.9	4.5	2.5	15.8
73.0	14.4	0.6	2.8	0.0	2.0	2.0	4.8	2.7	17.1
74.0	15.7	0.7	3.0	0.0	2.1	2.1	5.1	2.9	18.5
75.0	17.0	0.8	3.2	0.0	2.2	2.2	5.4	3.1	20.1
76.0	18.4	0.9	3.4	0.0	2.3	2.3	5.7	3.3	21.7
77.0	19.9	0.9	3.5	0.0	2.5	2.5	6.0	3.5	23.4
78.0	21.5	1.0	3.7	0.0	2.6	2.6	6.3	3.8	25.3
79.0	23.2	1.1	3.8	0.0	2.8	2.8	6.6	4.1	27.3
80.0	24.9	1.2	4.0	0.0	3.0	3.0	7.0	4.4	29.3
81.0	26.8	1.3	4.1	0.0	3.2	3.2	7.3	4.7	31.5
82.0	28.7	1.5	4.3	0.0	3.4	3.4	7.7	5.1	33.8
83.0	30.7	1.6	4.4	0.0	3.6	3.6	8.0	5.5	36.2
84.0	32.8	1.7	4.5	0.0	3.9	3.9	8.4	5.9	38.7
85.0	35.0	1.9	4.6	0.0	4.1	4.1	8.7	6.3	41.3
86.0	37.3	2.0	4.7	0.0	4.4	4.4	9.1	6.8	44.1
87.0	39.6	2.2	4.8	0.0	4.7	4.7	9.5	7.3	46.9
88.0	42.0	2.3	4.9	0.1	5.1	5.1	10.0	7.8	49.8
89.0	44.5	2.5	5.0	0.1	5.5	5.5	10.5	8.4	52.9
90.0	47.0	2.7	5.1	0.1	5.9	5.9	10.9	9.0	56.1
91.0	49.6	2.8	5.1	0.1	6.3	6.3	11.5	9.7	59.4
92.0	52.3	3.0	5.2	0.2	6.8	6.8	12.0	10.4	62.7
93.0	55.0	3.2	5.3	0.2	7.3	7.3	12.6	11.2	66.2
94.0	57.8	3.4	5.3	0.3	7.9	7.9	13.2	12.0	69.8
95.0	60.6	3.6	5.4	0.3	8.4	8.4	13.8	12.8	73.5
96.0	63.5	3.9	5.5	0.4	9.0	9.0	14.5	13.7	77.2
97.0	66.4	4.1	5.5	0.4	9.7	9.7	15.2	14.6	81.1
98.0	69.4	4.3	5.6	0.5	10.4	10.4	16.0	15.6	85.0
99.0	72.4	4.5	5.7	0.6	11.1	11.1	16.8	16.6	89.0

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Continued)

COMPOSITE									AHI
TIME	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
	VALUE	COMP	+RSS	ATMOS	RGHW	+RSS	+RSS	DISP	VALUE
100.0	75.4	4.8	5.8	0.7	11.8	11.8	17.6	17.6	93.1
101.0	78.5	5.0	5.8	0.8	12.5	12.6	18.4	18.7	97.2
102.0	81.6	5.3	5.9	0.9	13.3	13.4	19.3	19.8	101.4
103.0	84.7	5.5	6.0	1.0	14.1	14.2	20.2	21.0	105.7
104.0	87.8	5.8	6.2	1.1	14.9	15.0	21.2	22.2	109.9
105.0	90.8	6.0	6.4	1.2	15.8	15.8	22.2	23.3	114.2
106.0	93.9	6.3	6.6	1.3	16.6	16.6	23.3	24.5	118.4
107.0	96.8	6.5	6.9	1.4	17.4	17.5	24.3	25.7	122.5
108.0	99.7	6.8	7.1	1.5	18.2	18.3	25.3	26.9	126.6
109.0	102.5	7.0	7.3	1.6	19.0	19.1	26.4	28.0	130.5
110.0	105.3	7.3	7.5	1.7	19.8	19.8	27.3	29.1	134.4
111.0	107.9	7.5	7.7	1.8	20.5	20.6	28.3	30.2	138.2
112.0	110.5	7.7	7.9	1.9	21.2	21.3	29.3	31.3	141.8
113.0	113.1	8.0	8.1	2.0	22.0	22.0	30.2	32.3	145.4
114.0	115.5	8.2	8.3	2.1	22.7	22.8	31.1	33.3	148.9
115.0	117.9	8.4	8.5	2.1	23.4	23.5	32.0	34.3	152.2
116.0	120.2	8.6	8.7	2.2	24.0	24.1	32.9	35.3	155.5
117.0	122.5	8.8	8.9	2.3	24.7	24.8	33.7	36.3	158.7
118.0	124.6	9.0	9.1	2.4	25.3	25.4	34.5	37.2	161.8
119.0	126.8	9.2	9.3	2.5	25.9	26.0	35.3	38.1	164.9
120.0	128.9	9.4	9.5	2.6	26.5	26.6	36.1	39.0	167.9
121.0	130.9	9.6	9.6	2.7	27.1	27.2	36.9	39.9	170.8
122.0	132.9	9.8	9.8	2.8	27.7	27.8	37.6	40.8	173.6
123.0	134.8	10.0	10.0	2.9	28.2	28.4	38.4	41.6	176.4
124.0	136.6	10.2	10.2	3.0	28.8	28.9	39.1	42.5	179.1
125.0	138.5	10.4	10.3	3.1	29.3	29.5	39.8	43.3	181.8
126.0	140.3	10.6	10.5	3.2	29.9	30.0	40.5	44.1	184.4
127.0	142.0	10.8	10.7	3.2	30.4	30.6	41.3	44.9	186.9
128.0	143.7	11.0	10.9	3.3	30.9	31.1	41.9	45.7	189.4
129.0	145.3	11.2	11.0	3.4	31.4	31.6	42.6	46.5	191.8
130.0	147.0	11.4	11.2	3.5	31.9	32.1	43.3	47.3	194.2
140.0	161.1	13.3	13.1	4.2	36.8	37.1	50.2	54.8	215.9
150.0	172.5	14.9	14.9	5.0	41.3	41.6	56.5	61.6	234.1
160.0	181.8	16.5	16.8	6.2	45.6	46.0	62.7	68.1	249.9
170.0	189.1	18.0	18.5	7.1	49.7	50.2	68.7	74.6	263.7
180.0	195.0	19.4	20.0	7.7	53.3	53.8	73.8	80.5	275.4
190.0	199.8	20.5	21.3	7.9	56.3	56.9	78.2	85.6	285.4
200.0	204.0	21.5	22.4	8.0	59.0	59.6	82.0	90.1	294.1
210.0	207.7	22.5	23.5	8.1	61.5	62.1	85.5	94.3	301.9
220.0	210.8	23.4	24.5	8.1	64.0	64.5	88.9	98.3	309.0
230.0	213.6	24.2	25.3	8.1	66.2	66.7	92.0	102.1	315.7
240.0	216.2	25.0	26.1	8.1	68.1	68.6	94.7	105.6	321.8
250.0	218.7	25.7	26.8	8.1	70.0	70.5	97.3	108.9	327.6
260.0	221.2	26.4	27.5	8.1	71.8	72.2	99.7	112.0	333.2
270.0	223.7	27.1	28.2	8.1	73.5	73.9	102.1	115.0	338.7
280.0	226.3	27.7	28.9	8.1	75.1	75.6	104.4	118.0	344.3
290.0	229.0	28.4	29.5	8.2	76.8	77.2	106.8	121.0	350.0
300.0	232.0	29.1	30.3	8.2	78.5	78.9	109.2	124.0	356.0
310.0	235.3	29.8	31.0	8.2	80.3	80.7	111.7	127.1	362.3
320.0	238.9	30.6	31.8	8.2	82.1	82.5	114.4	130.2	369.2

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Concluded)

COMPOSITE										AHI

APPENDIX A—WTR DECEMBER LAUNCH CRITERIA AND GROUND RULES

Mission

- a. 33,664-lb payload
- b. 98° orbit inclination
- c. 4 man, 7 day

Trajectory

a. General

Shaped for normal trajectory

b. Launch

1. Launch Pad

Latitude = 34.58139° North
Longitude = 239.3747° East
Altitude = 461 ft

Altitude corresponds to booster station 1942 (11.36 in. below the base of the booster skirt).

- 2. Orbiter tail-west orientation.
- 3. Staggered start on main engines. 120-ms delay between starts; each space shuttle main engine (SSME) reaches 90% thrust at 3.7 s after its start signal.
- 4. Solid rocket booster (SRB) ignition command defines t_0 and is issued 2.716 s after last SSME reaches 90% thrust. Solid rocket motor (SRM) thrust rise starts 0.011 s after ignition command.
- 5. Vertical rise until vehicle has gained 365 ft of altitude.

c. First stage

- 1. WTR Revised Range Reference Atmosphere (RRRA), DEC
- 2. WTR December Mean Wind (see Figure A-1)
- 3. Flight Control 10
- 4. Maximum dynamic pressure nominal 680 psf

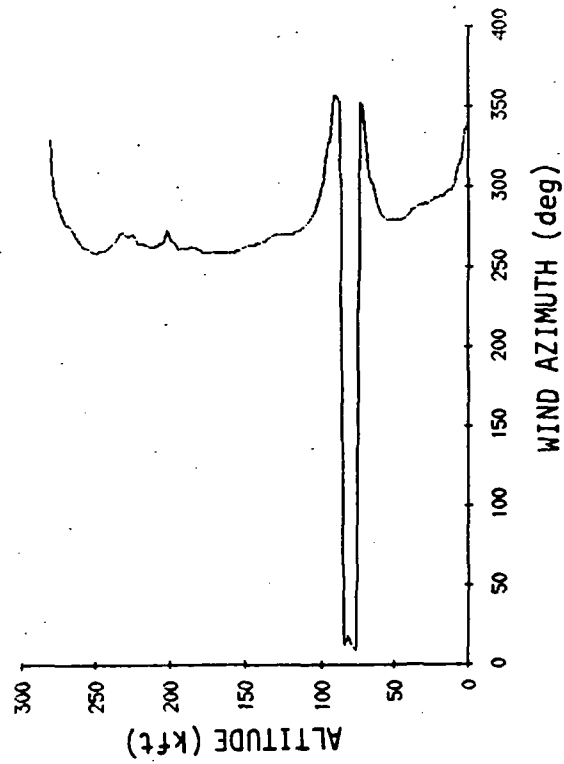
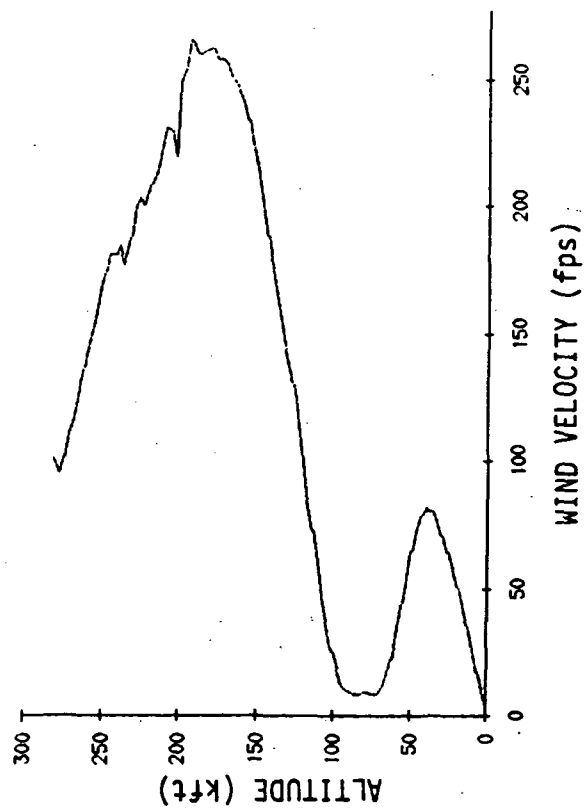


Figure A-1. WTR December Mean Wind Data

5. MPS throttle single step

I-Load Entries		Reference Values	
Vrel (fps)	Command Throttle (%)	Time (s)	Actual Throttle (%)
0.0	100	0.0	100
72.2	109	3.5	100
		4.4	109
552.6	77	20.0	109
		23.2	77
1202.5	109	46.1	77
		49.3	109

6. SSME throttle change rate $\pm 10\%/s$

7. Alpha profile and negative q-alpha limit profile

Mach Number	q alpha (psf-deg)
0.60	-1250
1.05	-3500
1.15	-3750
1.50	-3750
2.00	0.0*

*Continue linearly through $M_0 = 2$ to
alpha = 2° and hold

8. N_y = zero following roll-to-flight azimuth

9. Elevon schedule Rev. 2

Relative Velocity (fps)	Inboard Elevon Deflection (deg)	Outboard Elevon Deflection (deg)	Mach Number (Reference)
0.0	10.00	9.0	0.00
1195.5	10.00	9.0	1.18
1369.5	10.00	1.5	1.40
1575.1	10.00	-5.0	1.64
1718.9	10.00	-5.0	1.80
2287.9	1.43	-5.0	2.40
2390.3	0.00	-2.5	2.50
2493.9	0.00	0.0	2.60
5933.4	0.00	0.0	6.00

10. Nonpropulsive materials lost.

L/O to staging: 1.61 lb/s
Staging to MECO: 0.644 lb/s

11. Adaptive Guidance/Throttle Inputs

Symbol	Input	Definition
TREF_ADJUST	18.72 s	Design reference time to obtain reference velocity
VREF_ADJUST	510.315 fps	Design reference velocity for SRB adaptive guidance
L_THRT	2.0	Throttle index for hot SRBs
L_THRTL	3.0	Throttle index for cold SRB
THRT_FAC	6543.0	Throttle adjustment factor for hot SRBs
THRT_FACL	9000.0	Throttle adjustment factor for cold SRBs
PTCH_FAC	0.014	Pitch adjustment factor for hot SRBs
PTCH_FACL	0.0	Pitch adjustment factor for cold SRBs
PTCH_PCT	0.6	Variable load relief gain

12. Steering commands data (see Table A-1)

d. Staging

1. SRB separation 6.2 s after $P_c = 50$ psi
2. Command SRB nozzle actuators to null 4.5 s after $P_c = 50$ psi
3. Attitude hold from SRB separation to 4.0 s after separation

Table A-1. Flight Control Parameter

Relative Velocity	No Engine Failures		
	Pitch Command	Yaw Command	Roll Command
0.00	90.000	183.000	93.000
133.43	93.570	174.570	0.000
380.18	93.570	174.570	0.000
455.10	92.320	174.570	0.000
584.80	88.950	174.570	0.520
697.40	85.400	174.570	4.370
800.30	82.540	174.570	10.960
899.60	79.760	174.610	13.970
948.10	77.870	179.990	6.980
995.70	75.910	185.190	0.000
1110.70	70.460	188.690	0.000
1226.40	64.930	190.880	0.000
1338.20	60.150	192.030	0.000
1435.60	56.360	192.380	0.000
1544.40	52.900	192.280	0.000
1666.10	50.280	191.900	0.000
1801.20	48.220	191.380	0.000
1949.90	46.710	190.770	0.000
2112.00	45.760	190.150	0.000
2286.50	45.430	189.670	0.000
2469.50	44.820	189.360	0.000
2656.30	42.880	190.750	36.000
2908.50	39.490	191.690	84.000
3165.70	36.060	191.040	132.000
3427.80	33.520	190.060	180.000
3824.40	31.050	190.730	180.000
4213.70	28.740	191.790	180.000
4508.20	26.120	192.730	180.000
4613.90	24.020	193.210	180.000
4800.00	20.320	194.060	180.000

Table A-1. Flight Control (Concluded)

Relative Velocity	SRB Gimbal Trim	Normal Load Factor
	Nominal	Nominal
0.00	-0.1000	0.0660
110.00	-0.2600	0.0660
270.00	-0.2900	0.0620
550.00	-0.5600	0.0910
650.00	-0.3200	0.0870
880.00	-1.0400	0.1410
960.00	-1.1000	0.1690
1090.00	-0.7400	0.2150
1130.00	-0.7900	0.2340
1200.00	-0.9200	0.2250
1280.00	-1.5100	0.2720
1370.00	-1.4100	0.2890
1500.00	-0.9000	0.2900
1600.00	-0.5900	0.2710
1760.00	-0.3400	0.2360
2060.00	-0.0200	0.1480
2280.00	0.2400	0.1060
2380.00	0.1900	0.0870
4085.00	0.7600	0.1320
5000.00	0.7600	0.1320
SSME GIMBAL TRIM = -2.00° AT STAGING		

4. Maximum dynamic pressure at separation shall not exceed 75 psf (with dispersions)
5. Begin SSME trim command after $P_C = 380$ psi (6-s ramp). Constant SRB trim command beyond V_{rel} corresponding to nominal $P_C = 380$ psi

e. Second stage

1. General

Maximum acceleration = 3 g's by MPS throttling

2. Normal Trajectory

- (a) MPS throttle setting = 109%
- (b) Pitch paralleling SSMEs from staging +12 s to MECO -60 s (mass cue)
- (c) SSMEs throttle to reach 65% (MPL) 6 s before MECO at -10%/s

(d) MECO target conditions

h (equatorial)	57 nm
gamma (inertial)	0.65°
v (inertial)	25,374 fps
Inclination	98°
Ascending node	55.25236°.*

Propulsion

1. SRM

- (a) Block II SRM Prediction, TC-MD-271-84-MAX2. FWC HPM with 0.392 inches per second (IPS) burnrate for 60°F motor. Thrust and Isp degraded by 0.736% for aerocompatibility. A thrust bias is also included (see Figure A-2).

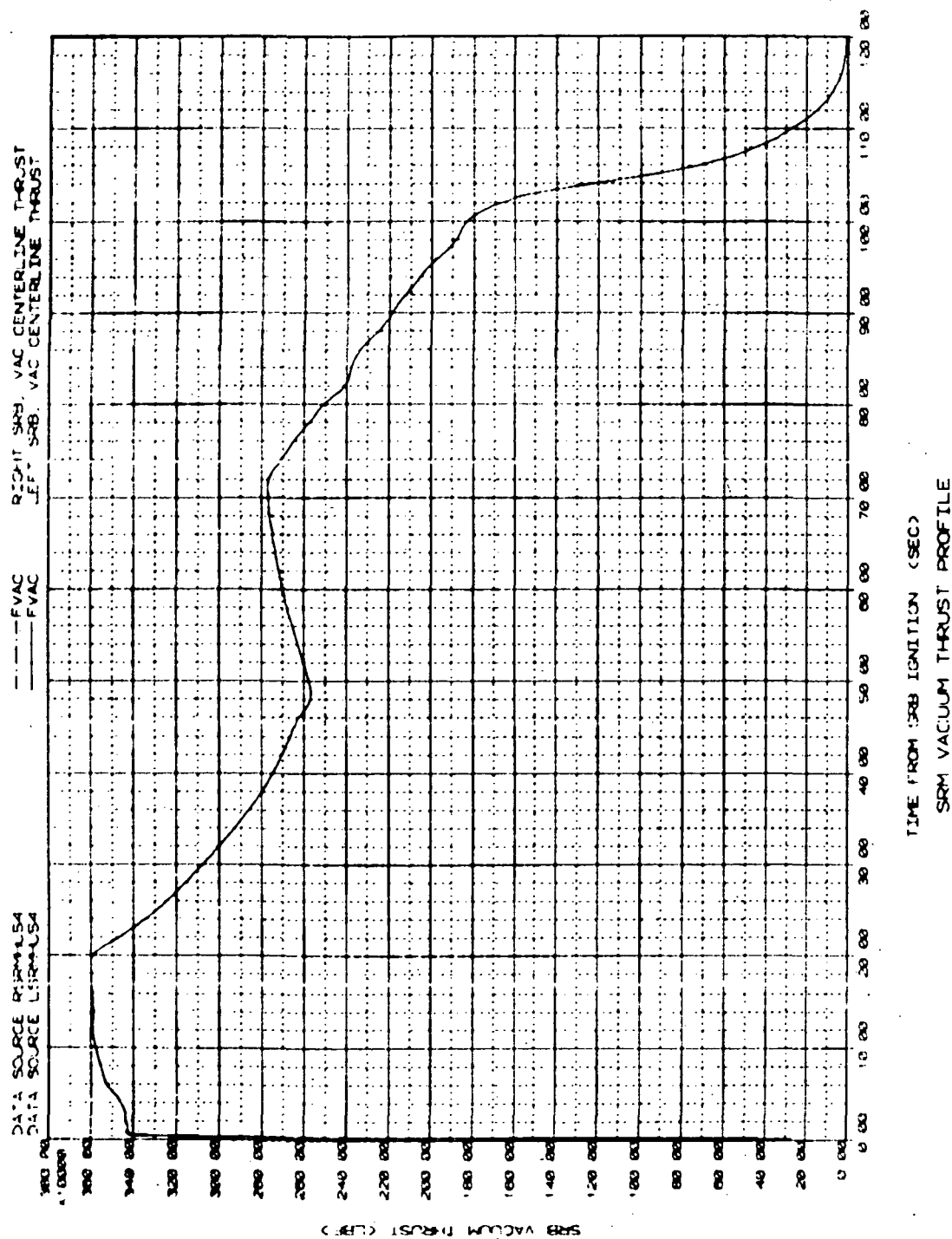
PMBT = 54°

2. SSME

- (a) $T_{vac} = \text{Spec}$ (469,946 lb at 100% power level)
- (b) $A_{exit} = 6391.6 \text{ in}^2$

*Referenced to Greenwich at $t = 0$ s.

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Figure A-2. SRM Vacuum Thrust Profile

- (c) $I_{spvac} = 452.39 \text{ s}$ at 100% PL,
- (d) $I_{spvac} = 452.65 \text{ s}$ at 109% PL,
- (e) Pitch null = -16° (No. 1 engine) and -10° (No. 2 and No. 3 engines)
- (f) Yaw null = 0° (all engines); No. 2 and No. 3 are electronically biased to 0° from their mechanical nulls of 3.5° outboard

Aerodynamics

IVBC-3 Aero

Mass Properties

1. Element weight
 - Orbiter control weight
(orbiter + bouyancy) = 148,784 lb
 - External tank (ET) control
(weight ET + bouyancy) = 67,098 lb
 - SSME control weight = 20,958 lb
2. MPS propellant weights
 - MPS propellant unexpended
(trapped + FPR + bias) = 12,643 lb*
 - MPS propellant expended = 1,596,095 lb
 - Total MPS propellant at
t = 0 (SRB ignition) = 1,605,549 lb
3. SRB weights
 - SRB total gross weight = 2,544,067 lb
4. FPR and fuel bias

NORMAL

Inflight FPR = 4637 lb
 LH₂ Bias = 1317 lb

*Normal mission

APPENDIX B—COMPUTER FILE INPUT/OUTPUT REQUIREMENTS

A resident file is provided on the MSFC VAX-1 computer system. This file is a direct access file that contains time-ordered data associated with all trajectories simulated in this study. This appendix defines the input/output requirements of this file.

A file is made up of 16,000 records and each record consists of 13 words.

The FORTRAN read statement for this file is the following:

`'READ(N'NR)VAR,IVAR'`

where

N - file number

NR - number of requested record (1 to 16000)

VAR - a storage array consisting of 12 parameters:

- (1) - time from liftoff (s)
- (2) - angle of attack (α) (deg)
- (3) - sideslip angle (β) (deg)
- (4) - aerodynamic heating indicator (BTU)
- (5) - dynamic pressure (lb/ft²)
- (6) - altitude (ft)
- (7) - Earth relative velocity (ft/s)
- (8) - airspeed (ft/s)
- (9) - radius from the Earth's center (ft)
- (10) - inertial velocity (ft/s)
- (11) - inertial flight path angle (γ) (deg)
- (12) - Mach number

IVAR - multipurpose variable flag used to specify the contents of the records (see Table B-1)

All trajectory cases are stored within a maximum of 200 records; therefore, the start of each trajectory will begin at some

multiple of 200 plus 1. The normal mode for reading this data is to first interrogate the starting record which indicates by the value of IVAR the type of trajectory. Data can be extracted from the file by continued reading of sequential records until the value of IVAR is equal to 9999 (which specifies the end of the trajectory data).

The only data on the file that do not correspond to the above definition of the VAR array are associated with IVAR = 5100. In this case, the VAR array is defined in the following manner:

- VAR (1) - time from liftoff (s)
- (2) - positive RSS dispersion for aerodynamic heating indicator
- (3) - negative RSS dispersion for aerodynamic heating indicator (value is positive in sign)
- (4) - positive RSS dispersion for angle of attack
- (5) - negative RSS dispersion for angle of attack
- (6) - positive RSS dispersion for sideslip angle
- (7) - negative RSS dispersion for sideslip angle
- (8) - positive RSS dispersion for dynamic pressure
- (9) - negative RSS dispersion for dynamic pressure
- (10) - positive RSS dispersion for the product of dynamic pressure and angle of attack
- (11) - negative RSS dispersion for the product of dynamic pressure and angle of attack
- (12) - positive RSS dispersion for the product of dynamic pressure and sideslip angle
- (13) - negative RSS dispersion for the product of dynamic pressure and sideslip angle

Table B-1. Interpretation of IVAR Variables

0000	VAR contains data
9999	Terminal point has been reached for this trajectory
___0	Positive dispersion (the parameter is perturbed in a positive sense)
___1	Negative dispersion (the parameter is perturbed in a negative sense)
0010	The following data contain the nominal trajectory
1___	The following data are related to propulsion dispersion parameters
101_	SRM web action time
102_	SRM terminal thrust mismatch
103_	SRM specific impulse
104_	SRM steady state thrust mismatch
105_	SRM steady state specific impulse mismatch
106_	SRM thrust misalignment (pitch)
107_	SRM thrust misalignment (yaw)
108_	SSME vacuum thrust
109_	SSME vacuum specific impulse
110_	SSME thrust misalignment (pitch)
111_	SSME thrust misalignment (yaw)
2___	The following data are related to aero/environment dispersion parameters
201_	Axial force coefficient
202_	Pitch force coefficient

Table B-1. Interpretation of IVAR Variables (Continued)

203_	Pitch moment coefficient
204_	Side force coefficient
205_	Yaw moment coefficient
206_	Roll moment coefficient
207_	Base force
208_	Atmosphere (+ density variations)
3---	The following data are related to mass properties dispersion parameters
301_	External tank propellant weight
302_	SRB propellant weight
303_	SRB inert weight
304_	Second stage inert weight
305_	First stage longitudinal center of gravity
306_	First stage lateral center of gravity
307_	First stage normal center of gravity
308_	Second stage longitudinal center of gravity
309_	Second stage normal center of gravity
4---	The following data are related to GN&C dispersion parameters
401_	Accelerometer error (pitch)
402_	Accelerometer error (yaw)
403_	Rate gyro (pitch)
404-	Rate gyro (yaw)

Table B-1. Interpretation of IVAR Variables (Concluded)

405-	Inertial measurement unit (IMU) platform error (pitch)
406_	IMU platform error (yaw)
407_	IMU platform error (roll)
408_	MECO targeting
5---	The following data are related to the composite and wind related trajectories
501_	Composite (system dispersion only)
502_	Right quartering head wind (RQHW) dispersion (95% design)
503_	Maximum aerodynamic heating trajectory with RQHW
504_	Head wind (HW) dispersion (95% design)
505_	Maximum aerodynamic heating trajectory with HW
5100	The following data are time ordered RSS values for positive and negative dispersions of aerodynamic heating indicator, angle of attack, sideslip angle, dynamic pressure, the product of dynamic pressure and angle of attack, and the product of dynamic pressure and sideslip angles

APPENDIX C—DISPERSION DATA (WTR)

[illegible]

PROPULSION

TIME	NOM	VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NDM+RSS	-RSS	NDM-RSS	AH1	NEG
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*
19.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	*
20.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	*
21.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	*
22.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	*
23.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.1	*
24.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.1	*
25.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0	0.2	*
26.0	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.2	*
27.0	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.3	*
28.0	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.0	0.3	*
29.0	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.0	0.4	*
30.0	0.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.0	0.4	*
31.0	0.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.1	0.0	0.5	*
32.0	0.6	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.1	0.0	0.5	*
33.0	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.1	0.0	0.6	*
34.0	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.1	0.0	0.6	*
35.0	0.8	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.1	0.0	0.7	*
36.0	0.9	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.1	0.0	0.8	*
37.0	1.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.2	0.0	0.8	*
38.0	1.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.2	0.0	0.9	*
39.0	1.1	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	0.2	0.0	1.0	*
40.0	1.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	0.2	0.0	1.1	*
41.0	1.3	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	0.2	0.0	1.2	*
42.0	1.4	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.8	0.2	0.0	1.3	*
43.0	1.5	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.0	0.2	0.0	1.5	*
44.0	1.7	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1	0.2	0.0	1.6	*
45.0	1.8	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	0.2	0.0	1.7	*
46.0	1.9	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.4	0.2	0.0	1.8	*
47.0	2.1	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.6	0.2	0.0	2.0	*
48.0	2.2	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.8	0.2	0.0	2.1	*
49.0	2.4	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.8	0.2	0.0	2.1	*

PROPULSION

	PROPULSION												AHJ		PDS		
	TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
	50.0	2.5	-0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.9	0.2	2.3
	51.0	2.7	-0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.1	0.3	2.4
	52.0	2.9	-0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.4	0.3	2.6
	53.0	3.1	-0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.3	2.8
	54.0	3.3	-0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.9	0.3	3.0
	55.0	3.5	-0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.1	0.3	3.2
	56.0	3.8	-0.3	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.4	0.4	3.4
	57.0	4.0	-0.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.8	0.4	3.6
	58.0	4.3	-0.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.1	0.5	3.9
	59.0	4.7	-0.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.5	4.1
	60.0	5.0	-0.5	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.0	6.0	0.6	4.4
	61.0	5.4	-0.6	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.1	6.5	0.6	4.8
	62.0	5.8	-0.6	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.2	7.0	0.7	5.1
	63.0	6.3	-0.7	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	1.3	7.6	0.8	5.5
	64.0	6.8	-0.8	0.0	0.2	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	1.4	8.2	0.9	6.0
	65.0	7.4	-0.9	0.0	0.2	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0	1.5	8.9	1.0	6.4
	66.0	8.1	-1.0	0.0	0.2	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0	1.6	9.7	1.1	6.9
	67.0	8.7	-1.1	0.0	0.3	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0	1.8	10.5	1.2	7.5
	68.0	9.5	-1.3	0.0	0.3	0.0	0.3	0.2	0.0	0.1	0.0	0.0	0.0	1.9	11.5	1.4	8.1
	69.0	10.3	-1.4	0.0	0.3	0.0	0.4	0.2	0.0	0.1	0.0	0.0	0.0	2.1	12.4	1.5	8.8
	70.0	11.2	-1.6	0.0	0.4	0.0	0.4	0.2	0.1	0.1	0.0	0.0	0.0	2.3	13.5	1.7	9.5
	71.0	12.2	-1.7	0.0	0.4	0.0	0.4	0.2	0.1	0.1	0.0	0.0	0.0	2.5	14.7	1.9	10.3
	72.0	13.3	-1.9	0.0	0.4	0.0	0.5	0.3	0.1	0.1	0.0	0.0	0.0	2.6	15.9	2.1	11.2
	73.0	14.4	-2.1	0.0	0.4	0.0	0.5	0.3	0.1	0.1	0.0	0.0	0.0	2.8	17.3	2.3	12.2
	74.0	15.7	-2.3	0.0	0.5	0.0	0.5	0.4	0.1	0.1	0.0	0.0	0.0	3.0	18.7	2.5	13.2
	75.0	17.0	-2.5	0.0	0.5	0.0	0.5	0.4	0.1	0.1	0.0	0.0	0.0	3.2	20.2	2.7	14.3
	76.0	18.4	-2.7	0.0	0.5	0.0	0.6	0.4	0.1	0.1	0.0	0.0	0.0	3.4	21.8	2.9	15.5
	77.0	19.9	-2.9	0.0	0.5	0.0	0.6	0.5	0.1	0.1	0.0	0.0	0.0	3.5	23.4	3.2	16.7
	78.0	21.5	-3.2	0.0	0.6	0.0	0.7	0.6	0.2	0.2	0.0	0.0	0.0	3.7	25.2	3.4	18.1
	79.0	23.2	-3.4	0.0	0.6	0.0	0.7	0.6	0.2	0.2	0.0	0.0	0.0	3.8	27.0	3.6	19.5
	80.0	24.9	-3.6	0.0	0.6	0.0	0.7	0.6	0.2	0.2	0.0	0.0	0.0	4.0	28.9	3.9	21.1
	81.0	26.8	-3.8	0.0	0.7	0.0	0.7	0.7	0.2	0.2	0.0	0.0	0.0	4.1	30.9	4.1	22.7
	82.0	28.7	-4.1	0.0	0.7	0.0	0.8	0.7	0.3	0.2	0.0	0.0	0.0	4.3	33.0	4.4	24.4
	83.0	30.7	-4.3	0.0	0.7	0.0	0.8	0.8	0.3	0.2	0.0	0.0	0.0	4.4	35.1	4.6	26.1
	84.0	32.8	-4.5	0.0	0.8	0.0	0.9	0.9	0.3	0.2	0.0	0.0	0.0	4.5	37.3	4.8	28.0
	85.0	35.0	-4.7	0.0	0.8	0.0	0.9	1.0	0.4	0.2	0.0	0.0	0.0	4.6	39.6	5.1	29.9
	86.0	37.3	-4.9	0.0	0.9	0.0	0.9	1.0	0.4	0.2	0.0	0.0	0.0	4.7	42.0	5.3	31.9
	87.0	39.6	-5.1	0.0	0.9	0.0	1.0	1.1	0.5	0.3	0.0	0.0	0.0	4.8	44.4	5.6	34.0
	88.0	42.0	-5.3	0.0	0.9	0.0	1.0	1.2	0.5	0.3	0.0	0.0	0.0	4.9	46.9	5.8	36.2
	89.0	44.5	-5.5	0.0	0.9	0.0	1.1	1.3	0.6	0.3	0.0	0.0	0.0	5.0	49.5	6.1	38.4
	90.0	47.0	-5.7	0.0	1.0	0.0	1.1	1.4	0.6	0.3	0.0	0.0	0.0	5.1	52.1	6.3	40.7
	91.0	49.6	-5.9	0.0	1.0	0.0	1.2	1.5	0.7	0.3	0.0	0.0	0.0	5.2	54.8	6.5	43.1
	92.0	52.3	-6.1	0.0	1.0	0.0	1.2	1.6	0.7	0.3	0.0	0.0	0.0	5.2	57.5	6.7	45.6
	93.0	55.0	-6.2	0.0	1.1	0.0	1.3	1.7	0.8	0.3	0.0	0.0	0.0	5.3	60.3	7.0	48.1
	94.0	57.8	-6.4	0.0	1.1	0.0	1.3	1.8	0.8	0.4	0.0	0.0	0.0	5.4	63.1	7.2	50.6
	95.0	60.6	-6.6	0.0	1.1	0.0	1.3	1.9	0.9	0.4	0.0	0.0	0.0	5.4	66.0	7.4	53.2
	96.0	63.5	-6.7	0.0	1.2	0.0	1.3	2.1	1.0	0.4	0.0	0.0	0.0	5.5	69.0	7.6	55.9
	97.0	66.4	-6.8	0.0	1.2	0.0	1.4	2.2	1.1	0.4	0.0	0.0	0.0	5.5	72.0	7.8	58.6
	98.0	69.4	-7.0	0.0	1.2	0.0	1.4	2.3	1.1	0.4	0.0	0.0	0.0	5.6	75.0	8.0	61.4
	99.0	72.4	-7.1	0.0	1.3	0.0	1.4	2.4	1.1	0.4	0.0	0.0	0.0	5.7	78.1	8.2	64.2

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NEG
100.0	75.4	2.4	0.0	-0.6	0.0	-0.8	-2.3	0.0	-0.4	0.0	-0.7	0.0	5.8	81.2	8.4	67.1
101.0	78.5	2.1	0.0	-0.6	0.0	-0.8	-2.4	0.0	-0.5	0.0	-0.8	0.0	5.8	84.3	8.5	70.0
102.0	81.6	1.7	0.0	-0.6	0.0	-0.8	-2.5	0.0	-0.5	0.0	-0.8	0.0	5.9	87.5	8.7	72.9
103.0	84.7	1.3	0.0	-0.6	0.0	-0.8	-2.6	0.0	-0.5	0.0	-0.9	0.0	6.0	90.7	8.8	75.8
104.0	87.8	0.7	0.0	-0.7	0.0	-0.9	-2.8	0.0	-0.5	0.0	-0.9	0.0	6.2	94.0	9.0	78.8
105.0	90.8	0.2	0.0	-0.7	0.0	-0.9	-2.9	0.0	-0.5	0.0	-0.9	0.0	6.4	97.2	9.0	81.8
106.0	93.9	-0.4	0.0	-0.7	0.0	-0.9	-3.0	0.0	-0.5	0.0	-1.0	0.0	6.6	100.5	9.1	84.8
107.0	96.8	-1.0	0.0	-0.7	0.0	-0.9	-3.1	0.0	-0.5	0.0	-1.0	0.0	6.9	103.7	9.1	87.8
108.0	99.7	-1.6	0.0	-0.7	0.0	-0.9	-3.3	0.0	-0.5	0.0	-1.1	0.0	7.1	106.8	9.0	90.7
109.0	102.5	-2.2	0.0	-0.7	0.0	-1.0	-3.4	0.0	-0.6	0.0	-1.1	0.0	7.3	109.8	8.9	93.6
110.0	105.3	-2.8	0.0	-0.7	0.0	-1.0	-3.5	0.0	-0.6	0.0	-1.1	0.0	7.5	112.8	8.8	96.5
111.0	107.9	-3.4	0.0	-0.7	0.0	-1.0	-3.6	0.0	-0.6	0.0	-1.1	0.0	7.7	115.7	8.7	99.3
112.0	110.5	-4.0	0.0	-0.7	0.0	-1.0	-3.7	0.0	-0.6	0.0	-1.2	0.0	7.9	118.5	8.6	102.0
113.0	113.1	-4.6	0.0	-0.8	0.0	-1.0	-3.8	0.0	-0.6	0.0	-1.2	0.0	8.1	121.2	8.5	104.6
114.0	115.5	-5.1	0.0	-0.8	0.0	-1.0	-3.9	0.0	-0.6	0.0	-1.2	0.0	8.3	123.9	8.6	106.9
115.0	117.9	-5.7	0.0	-0.8	0.0	-1.1	-4.0	0.0	-0.6	0.1	-1.3	0.0	8.5	126.4	9.1	108.8
116.0	120.2	-6.2	0.0	-0.8	0.0	-1.1	-4.1	0.0	-0.6	0.1	-1.3	0.0	8.7	128.9	9.5	110.7
117.0	122.5	-6.7	0.0	-0.8	0.0	-1.1	-4.2	0.0	-0.6	0.1	-1.3	0.0	8.9	131.4	10.0	112.4
118.0	124.6	-7.3	0.0	-0.8	0.0	-1.1	-4.3	0.0	-0.6	0.1	-1.3	0.0	9.1	133.7	10.5	114.2
119.0	126.8	-7.8	0.0	-0.8	0.0	-1.1	-4.4	0.0	-0.7	0.1	-1.3	0.0	9.3	136.1	10.9	115.8
120.0	128.9	-8.3	-0.1	-0.8	0.0	-1.1	-4.5	0.0	-0.7	0.1	-1.4	0.0	9.5	138.3	11.4	117.4
121.0	130.9	-8.7	-0.1	-0.8	0.0	-1.1	-4.6	0.0	-0.7	0.1	-1.4	0.0	9.6	140.5	11.9	119.0
122.0	132.9	-9.2	-0.1	-0.8	0.0	-1.1	-4.7	0.0	-0.7	0.1	-1.4	0.0	9.8	142.7	12.3	120.5
123.0	134.8	-9.7	-0.1	-0.8	0.0	-1.2	-4.8	0.0	-0.7	0.1	-1.4	0.0	10.0	144.8	12.8	122.0
124.0	136.6	-10.2	-0.1	-0.8	0.0	-1.2	-4.9	0.0	-0.7	0.1	-1.4	0.0	10.2	146.8	13.2	123.4
125.0	138.5	-10.6	-0.1	-0.8	0.0	-1.2	-5.0	0.0	-0.7	0.1	-1.5	0.0	10.3	148.8	13.7	124.8
126.0	140.3	-11.1	-0.1	-0.8	0.0	-1.2	-5.1	0.0	-0.7	0.1	-1.5	0.0	10.5	150.8	14.1	126.1
127.0	142.0	-11.5	-0.1	-0.8	0.0	-1.2	-5.2	0.0	-0.7	0.1	-1.5	0.0	10.7	152.7	14.6	127.4
128.0	143.7	-12.0	-0.1	-0.8	0.0	-1.2	-5.3	0.0	-0.7	0.1	-1.5	0.0	10.9	154.6	15.0	128.7
129.0	145.3	-12.4	-0.1	-0.8	0.0	-1.2	-5.3	0.0	-0.7	0.1	-1.5	0.0	11.0	156.4	15.4	129.9
130.0	147.0	-12.8	-0.1	-0.8	0.0	-1.2	-5.4	0.0	-0.7	0.1	-1.5	0.0	11.2	158.2	15.9	131.1
140.0	161.1	-16.7	-0.1	-0.8	0.0	-1.3	-6.3	0.0	-0.8	0.1	-1.6	0.0	13.1	174.2	19.8	141.3
150.0	172.5	-20.0	-0.1	-0.8	0.0	-1.3	-7.0	0.0	-0.9	0.1	-1.7	0.0	14.9	187.4	23.2	149.3
160.0	181.8	-23.2	-0.1	-0.8	0.0	-1.3	-7.7	0.0	-0.9	0.1	-1.7	0.0	16.8	198.6	26.6	155.2
170.0	189.1	-25.8	-0.1	-0.7	0.0	-1.3	-8.4	0.0	-0.9	0.1	-1.7	0.0	18.5	207.6	29.3	159.7
180.0	195.0	-27.9	0.0	-0.7	0.0	-1.3	-8.9	0.0	-0.9	0.1	-1.7	0.0	20.0	215.0	31.6	163.3
190.0	199.8	-29.9	0.0	-0.6	0.0	-1.3	-9.4	0.0	-1.0	0.1	-1.7	0.0	21.3	221.1	33.6	166.2
200.0	204.0	-31.4	0.0	-0.6	0.0	-1.3	-9.8	0.0	-1.0	0.1	-1.7	0.0	22.4	226.4	35.4	168.6
210.0	207.7	-32.9	0.0	-0.5	0.0	-1.3	-10.2	0.0	-1.0	0.1	-1.6	0.0	23.5	231.1	37.1	170.6
220.0	210.8	-34.2	0.0	-0.5	0.0	-1.2	-10.6	0.0	-1.0	0.1	-1.6	0.0	24.5	235.2	38.5	172.3
230.0	213.6	-35.3	0.1	-0.4	0.0	-1.2	-10.9	0.0	-1.0	0.1	-1.6	0.0	25.3	238.9	39.7	173.9
240.0	216.2	-36.3	0.1	-0.4	0.0	-1.2	-11.2	0.0	-1.0	0.1	-1.6	0.0	26.1	242.3	40.9	175.3
250.0	218.7	-37.3	0.1	-0.4	0.0	-1.2	-11.5	0.0	-1.1	0.1	-1.6	0.0	26.8	245.5	41.9	176.8
260.0	221.2	-38.2	0.1	-0.3	0.0	-1.2	-11.7	0.0	-1.1	0.1	-1.5	0.0	27.5	248.7	42.9	178.3
270.0	223.7	-39.1	0.1	-0.3	0.0	-1.2	-12.0	0.0	-1.1	0.1	-1.5	0.0	28.2	251.9	43.9	179.8
280.0	226.3	-40.0	0.2	-0.3	0.0	-1.1	-12.2	0.0	-1.1	0.1	-1.5	0.0	28.9	255.1	44.9	181.4
290.0	229.0	-40.9	0.2	-0.2	0.0	-1.1	-12.5	0.0	-1.2	0.1	-1.5	0.0	29.5	258.6	45.9	183.1
300.0	232.0	-41.9	0.2	-0.2	0.0	-1.1	-12.8	0.0	-1.2	0.1	-1.4	0.0	30.3	262.3	47.0	185.0
310.0	235.3	-42.9	0.2	-0.1	0.0	-1.1	-13.1	0.0	-1.3	0.1	-1.4	0.0	31.0	266.3	48.1	187.1
320.0	238.9	-44.0	0.2	-0.1	0.0	-1.1	-13.4	0.0	-1.3	0.1	-1.4	0.0	31.8	270.8	49.4	189.5

AERD/ENVIRONMENT														AHI	POS
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		
20.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		
21.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		
22.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1		
23.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1		
24.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.2		
25.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.2		
26.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.3		
27.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.4		
28.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.5		
29.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.1	0.6		
30.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	0.1	0.7		
31.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	0.1	0.8		
32.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.1	0.9		
33.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.2	1.0		
34.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.2	1.1		
35.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.2	1.2		
36.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	0.2	1.3		
37.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	0.2	1.4		
38.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	0.2	1.5		
39.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	0.2	1.6		
40.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	0.2	1.7		
41.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	0.2	1.8		
42.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.0	0.2	1.9		
43.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.1	0.2	2.0		
44.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.2	0.2	2.1		
45.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.3	0.2	2.2		
46.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4	0.2	2.3		
47.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.5	0.2	2.4		
48.0	2.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.8	0.2	2.6		
49.0		-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.8	0.2	2.6		

AERO/ENVIRONMENT

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NON-RSS	AHI	NEG
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
19.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	*	*
20.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	*	*
21.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	*	*
22.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	*	*
23.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	*	*
24.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1	*	*
25.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.2	*	*
26.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.2	*	*
27.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.3	*	*
28.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.3	*	*
29.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.4	*	*
30.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.1	0.5	*	*
31.0	0.5	0.0	0.0	0.0	0.0	0.0									

AERD/ENVIRONMENT

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	
50.0	2.5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.4	2.9	0.2	2.3	
51.0	2.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.5	3.1	0.3	2.4	
52.0	2.9	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.5	3.4	0.3	2.6	
53.0	3.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.5	3.6	0.3	2.8	
54.0	3.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.6	3.9	0.3	3.0	
55.0	3.5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.6	4.1	0.3	3.2	
56.0	3.8	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	4.4	0.4	3.4	
57.0	4.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	4.8	0.4	3.6	
58.0	4.3	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.8	5.1	0.5	3.9	
59.0	4.7	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.9	5.5	0.5	4.1	
60.0	5.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	1.0	6.0	0.6	4.4	
61.0	5.4	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	7.0	0.6	4.8	
62.0	5.8	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	7.6	0.7	5.1	
63.0	6.3	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	8.2	0.8	5.5	
64.0	6.8	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.9	0.9	6.0	
65.0	7.4	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	9.7	1.0	6.4	
66.0	8.1	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	10.5	1.1	6.9	
67.0	8.7	-0.4	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	1.8	11.5	1.2	7.5	
68.0	9.5	-0.4	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	1.9	12.4	1.4	8.1	
69.0	10.3	-0.5	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	2.1	13.5	1.5	8.8	
70.0	11.2	-0.5	-0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	2.3	14.7	1.7	9.5	
71.0	12.2	-0.5	-0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	2.5	15.9	1.9	10.3	
72.0	13.3	-0.6	-0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	2.6	17.3	2.1	11.2	
73.0	14.4	-0.6	-0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	2.8	18.7	2.3	12.2	
74.0	15.7	-0.7	-0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	3.0	20.2	2.5	13.2	
75.0	17.0	-0.7	-0.3	-0.1	0.0	0.0	0.0	-0.1	0.0	3.2	21.8	2.7	14.3	
76.0	18.4	-0.7	-0.3	-0.2	0.1	0.1	0.0	-0.1	0.0	3.4	23.4	2.9	15.5	
77.0	19.9	-0.8	-0.3	-0.2	0.1	0.1	0.0	-0.1	0.0	3.5	25.2	3.2	16.7	
78.0	21.5	-0.9	-0.4	-0.2	0.1	0.1	0.0	-0.1	0.0	3.7	27.0	3.4	18.1	
79.0	23.2	-0.9	-0.4	-0.2	0.1	0.1	0.0	-0.1	0.0	3.8	28.9	3.6	19.5	
80.0	24.9	-1.0	-0.4	-0.3	0.1	0.1	0.0	-0.1	0.0	4.0	30.9	3.9	21.1	
81.0	26.8	-1.0	-0.5	-0.3	0.1	0.1	0.0	-0.1	0.0	4.1	33.0	4.1	22.7	
82.0	28.7	-1.1	-0.5	-0.3	0.1	0.1	0.0	-0.1	0.0	4.3	35.1	4.4	24.4	
83.0	30.7	-1.1	-0.6	-0.4	0.1	0.1	0.0	-0.1	0.0	4.4	37.3	4.6	26.1	
84.0	32.8	-1.2	-0.6	-0.4	0.1	0.1	0.0	-0.1	-0.1	4.5	39.6	4.8	28.0	
85.0	35.0	-1.2	-0.7	-0.5	0.1	0.1	0.0	-0.1	-0.1	4.6	42.0	5.1	29.9	
86.0	37.3	-1.3	-0.7	-0.5	0.1	0.1	0.0	-0.1	-0.1	4.7	44.4	5.3	31.9	
87.0	39.6	-1.3	-0.8	-0.6	0.1	0.1	0.0	-0.1	-0.1	4.8	46.9	5.6	34.0	
88.0	42.0	-1.4	-0.8	-0.6	0.1	0.1	0.0	-0.1	-0.1	4.9	49.5	5.8	36.2	
89.0	44.5	-1.4	-0.9	-0.6	0.1	0.1	0.0	-0.1	-0.1	5.0	52.1	6.1	38.4	
90.0	47.0	-1.5	-1.0	-0.7	0.2	0.1	0.0	-0.1	-0.2	5.1	54.8	6.3	40.7	
91.0	49.6	-1.5	-1.0	-0.8	0.2	0.2	0.0	-0.1	-0.2	5.2	57.5	6.5	43.1	
92.0	52.3	-1.6	-1.1	-0.8	0.2	0.2	0.0	-0.1	-0.2	5.3	60.3	6.7	45.6	
93.0	55.0	-1.6	-1.2	-0.9	0.2	0.2	0.0	-0.1	-0.3	5.4	63.1	7.0	48.1	
94.0	57.8	-1.7	-1.3	-0.9	0.2	0.2	0.0	-0.1	-0.3	5.5	66.0	7.2	50.6	
95.0	60.6	-1.7	-1.3	-1.0	0.2	0.2	0.0	-0.1	-0.4	5.6	69.0	7.4	53.2	
96.0	63.5	-1.8	-1.4	-1.1	0.2	0.2	0.0	-0.1	-0.4	5.7	72.0	7.6	55.9	
97.0	66.4	-1.8	-1.5	-1.1	0.3	0.2	0.0	-0.1	-0.5	5.8	75.0	7.8	58.6	
98.0	69.4	-1.8	-1.6	-1.2	0.3	0.3	0.0	-0.1	-0.6	5.9	78.1	8.0	61.4	
99.0	72.4	-1.9	-1.7	-1.3	0.3	0.3	0.0	-0.1	-0.7	6.0	81.2	8.2	64.2	

AERO/ENVIRONMENT

AH1 NEG

TIME	NON VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	AH1	NEG
50.0	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.9	0.2	2.3		
51.0	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.1	0.3	2.4		
52.0	2.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.4	0.3	2.6		
53.0	3.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.6	0.3	2.8		
54.0	3.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	3.9	0.3	3.0		
55.0	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	4.1	0.3	3.2		
56.0	3.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	4.4	0.4	3.4		
57.0	4.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	4.8	0.4	3.6		
58.0	4.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	5.1	0.5	3.9		
59.0	4.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.5	4.1		
60.0	5.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.0	0.6	4.4		
61.0	5.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.5	0.6	4.8		
62.0	5.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	7.0	0.7	5.1		
63.0	6.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.3	7.6	0.8	5.5		
64.0	6.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.2	0.9	6.0		
65.0	7.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.5	8.9	1.0	6.4		
66.0	8.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.7	1.1	6.9		
67.0	8.7	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.8	10.5	1.2	7.5		
68.0	9.5	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.9	11.5	1.4	8.1		
69.0	10.3	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	2.1	12.4	1.5	8.8		
70.0	11.2	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	2.3	13.5	1.7	9.5		
71.0	12.2	0.5	0.2	0.1	0.0	0.0	0.0	0.1	0.0	2.5	14.7	1.9	10.3		
72.0	13.3	0.6	0.2	0.1	0.0	0.0	0.0	0.1	0.0	2.6	15.9	2.1	11.2		
73.0	14.4	0.6	0.2	0.1	0.0	0.0	0.0	0.1	0.0	2.8	17.3	2.3	12.2		
74.0	15.7	0.7	0.2	0.1	0.0	0.0	0.0	0.1	-0.1	3.0	18.7	2.5	13.2		
75.0	17.0	0.7	0.3	0.2	0.0	0.0	0.0	0.1	-0.1	3.2	20.2	2.7	14.3		
76.0	18.4	0.8	0.3	0.2	0.0	0.0	0.0	0.1	-0.1	3.4	21.8	2.9	15.5		
77.0	19.9	0.9	0.3	0.2	0.0	0.0	0.0	0.1	0.0	3.7	23.4	3.2	16.7		
78.0	21.5	0.9	0.4	0.2	0.0	-0.1	0.0	0.1	0.0	3.8	25.2	3.4	18.1		
79.0	23.2	1.0	0.4	0.3	0.0	-0.1	0.0	0.1	0.0	4.0	27.0	3.6	19.5		
80.0	24.9	1.0	0.4	0.3	0.0	-0.1	0.0	0.1	0.0	4.1	28.9	3.9	21.1		
81.0	26.8	1.1	0.5	0.4	0.0	-0.1	0.0	0.1	0.0	4.3	30.9	4.1	22.7		
82.0	28.7	1.2	0.5	0.4	0.0	-0.1	0.0	0.1	0.0	4.4	33.0	4.4	24.4		
83.0	30.7	1.2	0.6	0.4	0.0	-0.1	0.0	0.1	0.0	4.5	35.1	4.6	26.1		
84.0	32.8	1.3	0.7	0.5	0.0	-0.1	0.0	0.1	0.0	4.7	37.3	4.8	28.0		
85.0	35.0	1.4	0.7	0.6	0.0	-0.1	0.0	0.1	0.0	4.9	39.6	5.1	29.9		
86.0	37.3	1.4	0.7	0.6	0.0	-0.1	0.0	0.1	0.0	4.7	42.0	5.3	31.9		
87.0	39.6	1.5	0.8	0.6	0.0	-0.1	0.0	0.1	0.0	4.8	44.4	5.6	34.0		
88.0	42.0	1.5	0.9	0.7	0.0	-0.1	0.0	0.1	0.1	4.9	46.9	5.8	36.2		
89.0	44.5	1.6	0.9	0.7	0.0	-0.1	0.0	0.1	0.1	5.0	49.5	6.1	38.4		
90.0	47.0	1.7	1.0	0.8	0.0	-0.1	0.0	0.1	0.1	5.1	52.1	6.3	40.7		
91.0	49.6	1.7	1.1	0.9	0.0	-0.1	0.0	0.1	0.1	5.1	54.8	6.5	43.1		
92.0	52.3	1.8	1.1	1.0	0.0	-0.1	0.0	0.1	0.2	5.2	57.5	6.7	45.6		
93.0	55.0	1.8	1.2	1.1	0.0	-0.1	0.0	0.1	0.2	5.3	60.3	7.0	48.1		
94.0	57.8	1.9	1.3	1.1	-0.1	-0.2	0.0	0.1	0.3	5.3	63.1	7.2	50.6		
95.0	60.6	2.0	1.4	1.2	-0.1	-0.2	0.0	0.1	0.3	5.4	66.0	7.4	53.2		
96.0	63.5	2.0	1.5	1.3	-0.1	-0.2	0.0	0.1	0.4	5.5	69.0	7.6	55.9		
97.0	66.4	2.1	1.6	1.5	-0.1	-0.2	0.0	0.1	0.4	5.5	72.0	7.8	58.6		
98.0	69.4	2.1	1.6	1.4	-0.1	-0.2	0.0	0.1	0.5	5.6	75.0	8.0	61.4		
99.0	72.4	2.2	1.7	1.5	-0.1	-0.2	0.0	0.1	0.6	5.7	78.1	8.2	64.2		

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	75.4	-1.9	-1.8	-1.4	0.3	0.3	0.0	-0.1	-0.8	5.8	81.2	8.4	67.1
101.0	78.5	-1.9	-1.9	-1.4	0.3	0.3	0.0	-0.1	-0.9	5.8	84.3	8.5	70.0
102.0	81.6	-1.9	-2.0	-1.5	0.3	0.3	0.0	-0.2	-0.9	5.9	87.5	8.7	72.9
103.0	84.7	-2.0	-2.1	-1.6	0.4	0.4	0.0	-0.2	-1.0	6.0	90.7	8.8	75.8
104.0	87.8	-2.0	-2.1	-1.7	0.4	0.4	0.0	-0.2	-1.1	6.2	94.0	9.0	78.8
105.0	90.8	-2.0	-2.2	-1.8	0.4	0.4	0.0	-0.2	-1.2	6.4	97.2	9.0	81.8
106.0	93.9	-2.0	-2.3	-1.9	0.4	0.4	-0.1	-0.2	-1.3	6.6	100.5	9.1	84.8
107.0	96.8	-2.1	-2.4	-1.9	0.4	0.4	-0.1	-0.2	-1.4	6.9	103.7	9.1	87.8
108.0	99.7	-2.1	-2.5	-2.0	0.5	0.5	-0.1	-0.2	-1.6	7.1	106.8	9.0	90.7
109.0	102.5	-2.1	-2.6	-2.1	0.5	0.5	-0.1	-0.2	-1.7	7.3	109.8	8.9	93.6
110.0	105.3	-2.1	-2.7	-2.2	0.5	0.5	-0.1	-0.2	-1.8	7.5	112.8	8.8	96.5
111.0	107.9	-2.1	-2.8	-2.3	0.5	0.5	-0.1	-0.2	-1.9	7.7	115.7	8.7	99.3
112.0	110.5	-2.1	-2.9	-2.3	0.5	0.5	-0.1	-0.2	-2.0	7.9	118.5	8.6	102.0
113.0	113.1	-2.1	-2.9	-2.4	0.6	0.6	-0.1	-0.2	-2.1	8.1	121.2	8.5	104.6
114.0	115.5	-2.2	-3.0	-2.5	0.6	0.6	-0.1	-0.2	-2.2	8.3	123.9	8.6	106.9
115.0	117.9	-2.2	-3.1	-2.5	0.6	0.6	-0.1	-0.2	-2.3	8.5	126.4	9.1	108.8
116.0	120.2	-2.2	-3.2	-2.6	0.6	0.6	-0.1	-0.2	-2.4	8.7	128.9	9.5	110.7
117.0	122.5	-2.2	-3.2	-2.7	0.6	0.6	-0.1	-0.2	-2.5	8.9	131.4	10.0	112.4
118.0	124.6	-2.2	-3.3	-2.7	0.7	0.7	-0.1	-0.2	-2.6	9.1	133.7	10.5	114.2
119.0	126.8	-2.2	-3.4	-2.8	0.7	0.7	-0.1	-0.2	-2.7	9.3	136.1	10.9	115.8
120.0	128.9	-2.2	-3.5	-2.8	0.7	0.7	-0.1	-0.2	-2.7	9.5	138.3	11.4	117.4
121.0	130.9	-2.2	-3.5	-2.9	0.7	0.7	-0.1	-0.2	-2.8	9.6	140.5	11.9	119.0
122.0	132.9	-2.2	-3.6	-3.0	0.7	0.7	-0.1	-0.2	-2.9	9.8	142.7	12.3	120.5
123.0	134.8	-2.2	-3.7	-3.0	0.7	0.8	-0.1	-0.2	-3.0	10.0	144.8	12.8	122.0
124.0	136.6	-2.2	-3.7	-3.1	0.8	0.8	-0.1	-0.2	-3.1	10.2	146.8	13.2	123.4
125.0	138.5	-2.2	-3.8	-3.2	0.8	0.8	-0.1	-0.2	-3.2	10.3	148.8	13.7	124.8
126.0	140.3	-2.2	-3.9	-3.2	0.8	0.8	-0.1	-0.2	-3.3	10.5	150.8	14.1	126.1
127.0	142.0	-2.2	-3.9	-3.3	0.8	0.8	-0.1	-0.2	-3.4	10.7	152.7	14.6	127.4
128.0	143.7	-2.2	-4.0	-3.3	0.8	0.9	-0.1	-0.2	-3.5	10.9	154.6	15.0	128.7
129.0	145.3	-2.2	-4.1	-3.4	0.9	0.9	-0.1	-0.2	-3.6	11.0	156.4	15.4	129.9
130.0	147.0	-2.2	-4.1	-3.5	0.9	0.9	-0.1	-0.2	-3.6	11.2	158.2	15.9	131.1
140.0	161.1	-2.1	-4.8	-4.0	1.0	1.1	-0.1	-0.2	-4.4	13.1	174.2	19.8	141.3
150.0	172.5	-2.1	-5.3	-4.5	1.2	1.2	-0.2	-0.2	-5.2	14.9	187.4	23.2	149.3
160.0	181.8	-1.9	-5.8	-5.0	1.3	1.4	-0.2	-0.1	-6.6	16.8	198.6	26.6	155.2
170.0	189.1	-1.7	-6.3	-5.4	1.4	1.5	-0.2	-0.1	-7.8	18.5	207.6	29.3	159.7
180.0	195.0	-1.5	-6.7	-5.8	1.6	1.6	-0.2	-0.1	-8.9	20.0	215.0	31.6	163.3
190.0	199.8	-1.3	-7.0	-6.1	1.7	1.7	-0.2	-0.1	-9.0	21.3	221.1	33.6	166.2
200.0	204.0	-1.1	-7.3	-6.4	1.7	1.8	-0.2	-0.1	-9.0	22.4	226.4	35.4	168.6
210.0	207.7	-0.9	-7.6	-6.7	1.8	1.9	-0.2	-0.1	-9.0	23.5	231.1	37.1	170.6
220.0	210.8	-0.8	-7.9	-6.9	1.9	2.0	-0.2	0.0	-9.0	24.5	235.2	38.5	172.3
230.0	213.6	-0.6	-8.1	-7.1	2.0	2.1	-0.3	0.0	-9.0	25.3	238.9	39.7	173.9
240.0	216.2	-0.5	-8.3	-7.3	2.0	2.1	-0.3	0.0	-9.0	26.1	242.3	40.9	175.3
250.0	218.7	-0.4	-8.5	-7.5	2.1	2.2	-0.3	0.0	-9.0	26.8	245.5	41.9	176.8
260.0	221.2	-0.2	-8.7	-7.7	2.1	2.3	-0.3	0.0	-9.0	27.5	248.7	42.9	178.3
270.0	223.7	-0.1	-8.9	-7.9	2.2	2.3	-0.3	0.0	-9.0	28.2	251.9	43.9	179.8
280.0	226.3	0.0	-9.0	-8.0	2.3	2.4	-0.3	0.0	-9.0	28.9	255.1	44.9	181.4
290.0	229.0	0.1	-9.2	-8.2	2.3	2.4	-0.3	0.0	-9.0	29.5	258.6	45.9	183.1
300.0	232.0	0.2	-9.4	-8.4	2.4	2.5	-0.3	0.0	-9.0	30.3	262.3	47.0	185.0
310.0	235.3	0.3	-9.6	-8.6	2.4	2.6	-0.3	0.0	-9.0	31.0	266.3	48.1	187.1
320.0	238.9	0.5	-9.8	-8.8	2.5	2.6	-0.3	0.1	-9.0	31.8	270.8	49.4	189.5

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	NEG
100.0	75.4	2.2	1.8	1.6	-0.1	-0.2	0.0	0.1	0.7	5.8	81.2	8.4	67.1	*	*
101.0	78.5	2.3	1.9	1.7	-0.1	-0.3	0.0	0.1	0.8	5.8	84.3	8.5	70.0	*	*
102.0	81.6	2.3	2.0	1.8	-0.1	-0.3	0.0	0.2	0.9	5.9	87.5	8.7	72.9	*	*
103.0	84.7	2.3	2.1	1.9	-0.1	-0.3	0.0	0.2	1.0	6.0	90.7	8.8	75.8	*	*
104.0	87.8	2.4	2.2	2.0	-0.2	-0.3	0.0	0.2	1.1	6.2	94.0	9.0	78.8	*	*
105.0	90.8	2.4	2.3	2.1	-0.2	-0.3	0.0	0.2	1.2	6.4	97.2	9.0	81.8	*	*
106.0	93.9	2.5	2.4	2.2	-0.2	-0.4	0.0	0.2	1.3	6.6	100.5	9.1	84.8	*	*
107.0	96.8	2.5	2.5	2.3	-0.2	-0.4	0.0	0.2	1.4	6.9	103.7	9.1	87.8	*	*
108.0	99.7	2.5	2.6	2.3	-0.2	-0.4	0.0	0.2	1.5	7.1	106.8	9.0	90.7	*	*
109.0	102.5	2.6	2.7	2.4	-0.2	-0.4	0.0	0.2	1.6	7.3	109.8	8.9	93.6	*	*
110.0	105.3	2.6	2.8	2.5	-0.2	-0.4	0.1	0.2	1.7	7.5	112.8	8.8	96.5	*	*
111.0	107.9	2.6	2.8	2.6	-0.2	-0.4	0.1	0.2	1.8	7.7	115.7	8.7	99.3	*	*
112.0	110.5	2.7	2.9	2.7	-0.2	-0.5	0.1	0.2	1.9	7.9	118.5	8.6	102.0	*	*
113.0	113.1	2.7	3.0	2.8	-0.3	-0.5	0.1	0.2	2.0	8.1	121.2	8.5	104.6	*	*
114.0	115.5	2.7	3.1	2.9	-0.3	-0.5	0.1	0.2	2.1	8.3	123.9	8.6	106.9	*	*
115.0	117.9	2.8	3.2	2.9	-0.3	-0.5	0.1	0.2	2.1	8.5	126.4	9.1	108.8	*	*
116.0	120.2	2.8	3.2	3.0	-0.3	-0.5	0.1	0.2	2.2	8.7	128.9	9.5	110.7	*	*
117.0	122.5	2.8	3.3	3.1	-0.3	-0.5	0.1	0.2	2.3	8.9	131.4	10.0	112.4	*	*
118.0	124.6	2.8	3.4	3.2	-0.3	-0.6	0.1	0.2	2.4	9.1	133.7	10.5	114.2	*	*
119.0	126.8	2.9	3.5	3.3	-0.3	-0.6	0.1	0.2	2.5	9.3	136.1	10.9	115.8	*	*
120.0	128.9	2.9	3.5	3.3	-0.3	-0.6	0.1	0.2	2.6	9.5	138.3	11.4	117.4	*	*
121.0	130.9	2.9	3.6	3.4	-0.4	-0.6	0.1	0.2	2.7	9.6	140.5	11.9	119.0	*	*
122.0	132.9	2.9	3.7	3.5	-0.4	-0.6	0.1	0.2	2.8	9.8	142.7	12.3	120.5	*	*
123.0	134.8	3.0	3.7	3.6	-0.4	-0.7	0.1	0.2	2.9	10.0	144.8	12.8	122.0	*	*
124.0	136.6	3.0	3.8	3.7	-0.4	-0.7	0.1	0.2	3.0	10.2	146.8	13.2	123.4	*	*
125.0	138.5	3.0	3.9	3.7	-0.4	-0.7	0.1	0.2	3.1	10.3	148.8	13.7	124.8	*	*
126.0	140.3	3.0	4.0	3.8	-0.4	-0.7	0.1	0.2	3.2	10.5	150.8	14.1	126.1	*	*
127.0	142.0	3.0	4.0	3.9	-0.4	-0.7	0.1	0.2	3.3	10.7	152.7	14.6	127.4	*	*
128.0	143.7	3.0	4.1	3.9	-0.4	-0.7	0.1	0.2	3.4	10.9	154.6	15.0	128.7	*	*
129.0	145.3	3.0	4.2	4.0	-0.4	-0.7	0.1	0.2	3.5	11.0	156.4	15.4	129.9	*	*
130.0	147.0	3.1	4.2	4.0	-0.5	-0.8	0.1	0.2	3.5	11.2	158.2	15.9	131.1	*	*
140.0	161.1	3.1	4.9	4.7	-0.6	-0.9	0.1	0.2	4.2	13.1	174.2	19.8	141.3	*	*
150.0	172.5	3.2	5.4	5.2	-0.7	-1.0	0.1	0.2	5.0	14.9	187.4	23.2	149.3	*	*
160.0	181.8	3.1	5.9	5.8	-0.8	-1.2	0.2	0.2	6.2	16.8	198.6	26.6	155.2	*	*
170.0	189.1	3.1	6.4	6.3	-0.8	-1.3	0.2	0.1	7.1	18.5	207.6	29.3	159.7	*	*
180.0	195.0	3.0	6.8	6.8	-0.9	-1.4	0.2	0.1	7.7	20.0	215.0	31.6	163.3	*	*
190.0	199.8	2.9	7.1	7.2	-1.0	-1.5	0.2	0.1	7.9	21.3	221.1	33.6	166.2	*	*
200.0	204.0	2.8	7.4	7.5	-1.0	-1.6	0.2	0.1	8.0	22.4	226.4	35.4	168.6	*	*
210.0	207.7	2.7	7.7	7.8	-1.1	-1.7	0.2	0.1	8.1	23.5	231.1	37.1	170.6	*	*
220.0	210.8	2.7	8.0	8.1	-1.2	-1.7	0.2	0.1	8.1	24.5	235.2	38.5	172.3	*	*
230.0	213.6	2.6	8.2	8.4	-1.2	-1.8	0.2	0.1	8.1	25.3	238.9	39.7	173.9	*	*
240.0	216.2	2.5	8.4	8.6	-1.2	-1.9	0.2	0.1	8.1	26.1	242.3	40.9	175.3	*	*
250.0	218.7	2.5	8.6	8.9	-1.3	-1.9	0.2	0.1	8.1	26.8	245.5	41.9	176.8	*	*
260.0	221.2	2.4	8.8	9.1	-1.3	-2.0	0.2	0.0	8.1	27.5	248.7	42.9	178.3	*	*
270.0	223.7	2.4	9.0	9.3	-1.4	-2.0	0.3	0.0	8.1	28.2	251.9	43.9	179.8	*	*
280.0	226.3	2.3	9.2	9.5	-1.4	-2.1	0.3	0.0	8.1	28.9	255.1	44.9	181.4	*	*
290.0	229.0	2.3	9.4	9.7	-1.4	-2.1	0.3	0.0	8.2	29.5	258.6	45.9	183.1	*	*
300.0	232.0	2.2	9.6	9.9	-1.5	-2.2	0.3	0.0	8.2	30.3	262.3	47.0	185.0	*	*
310.0	235.3	2.2	9.8	10.1	-1.5	-2.2	0.3	0.0	8.2	31.0	266.3	48.1	187.1	*	*
320.0	238.9	2.1	10.0	10.4	-1.6	-2.3	0.3	0.0	8.2	31.8	270.8	49.4	189.5	*	*

AERO/ENVIRONMENT

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	POS
330.0	243.0	0.6	-10.1	-9.0	2.6	2.7	-0.3	0.1	-9.0	32.7	275.8	50.7	192.3	*	*
340.0	247.7	0.8	-10.3	-9.3	2.7	2.8	-0.3	0.1	-9.0	33.8	281.5	52.2	195.6	*	*
350.0	253.2	0.9	-10.6	-9.5	2.7	2.9	-0.3	0.1	-9.0	34.9	288.1	53.8	199.4	*	*
360.0	259.6	1.1	-10.9	-9.8	2.8	3.0	-0.4	0.1	-9.0	36.1	295.7	55.5	204.0	*	*
370.0	267.1	1.3	-11.3	-10.1	2.9	3.1	-0.4	0.1	-9.0	37.4	304.6	57.5	209.6	*	*
380.0	276.1	1.4	-11.6	-10.5	3.0	3.2	-0.4	0.1	-9.0	38.9	315.0	59.7	216.4	*	*
390.0	286.9	1.6	-12.0	-10.8	3.2	3.4	-0.4	0.1	-9.0	40.5	327.4	62.1	224.8	*	*
400.0	299.9	1.7	-12.4	-11.2	3.3	3.5	-0.4	0.2	-9.0	42.2	342.1	64.7	235.2	*	*
410.0	315.5	1.8	-12.8	-11.6	3.4	3.6	-0.4	0.2	-9.0	44.1	359.6	67.3	248.1	*	*
420.0	334.3	1.9	-13.2	-11.9	3.5	3.8	-0.4	0.2	-9.0	46.2	380.5	70.1	264.1	*	*
430.0	356.8	1.9	-13.6	-12.3	3.6	3.9	-0.4	0.2	-9.0	48.4	405.2	73.0	283.8	*	*
440.0	383.4	1.9	-14.0	-12.6	3.8	4.0	-0.5	0.2	-9.0	50.6	434.0	75.7	307.6	*	*
450.0	414.4	1.8	-14.3	-12.9	3.8	4.1	-0.5	0.1	-9.0	52.8	467.2	78.3	336.1	*	*
460.0	450.1	1.6	-14.6	-13.1	3.9	4.2	-0.5	0.1	-8.9	54.8	504.9	80.6	369.5	*	*
470.0	490.3	1.3	-14.8	-13.3	4.0	4.2	-0.5	0.1	-8.9	56.7	547.0	82.4	407.9	*	*
480.0	535.0	1.1	-14.9	-13.4	4.0	4.3	-0.5	0.1	-8.8	58.3	593.3	83.9	451.1	*	*

AERO/ENVIRONMENT

AH1 NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	NEG
330.0	243.0	2.0	10.2	10.7	-1.6	-2.4	0.3	0.0	8.2	32.7	275.8	50.7	192.3	*
340.0	247.7	2.0	10.5	11.0	-1.7	-2.4	0.3	0.0	8.2	33.8	281.5	52.2	195.6	*
350.0	253.2	1.9	10.8	11.3	-1.7	-2.5	0.3	0.0	8.2	34.9	288.1	53.8	199.4	*
360.0	259.6	1.9	11.1	11.7	-1.8	-2.6	0.3	0.0	8.3	36.1	295.7	55.5	204.0	*
370.0	267.1	1.8	11.4	12.0	-1.9	-2.7	0.3	-0.1	8.3	37.4	304.6	57.5	209.6	*
380.0	276.1	1.7	11.8	12.4	-2.0	-2.8	0.3	-0.1	8.3	38.9	315.0	59.7	216.4	*
390.0	286.9	1.7	12.1	12.8	-2.0	-2.9	0.4	-0.1	8.3	40.5	327.4	62.1	224.8	*
400.0	299.9	1.7	12.5	13.2	-2.1	-3.0	0.4	-0.1	8.3	42.2	342.1	64.7	235.2	*
410.0	315.5	1.7	12.9	13.6	-2.2	-3.1	0.4	-0.1	8.3	44.1	359.6	67.3	248.1	*
420.0	334.3	1.8	13.2	14.0	-2.3	-3.3	0.4	-0.1	8.3	46.2	380.5	70.1	264.1	*
430.0	356.8	1.9	13.6	14.5	-2.4	-3.4	0.4	-0.1	8.3	48.4	405.2	73.0	283.8	*
440.0	383.4	2.0	14.0	14.8	-2.4	-3.5	0.4	-0.1	8.3	50.6	434.0	75.7	307.6	*
450.0	414.4	2.2	14.3	15.1	-2.5	-3.6	0.4	-0.1	8.3	52.8	467.2	78.3	336.1	*
460.0	450.1	2.4	14.5	15.4	-2.6	-3.6	0.4	-0.1	8.3	54.8	504.9	80.6	369.5	*
470.0	490.3	2.7	14.7	15.6	-2.6	-3.7	0.4	0.0	8.2	56.7	547.0	82.4	407.9	*
480.0	535.0	3.0	14.8	15.7	-2.6	-3.7	0.4	0.0	8.2	58.3	593.3	83.9	451.1	*

MASS PROPERTIES

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	POS
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
19.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	*	*
20.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	*	*
21.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	*	*
22.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	*	*
23.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	*	*
24.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	*	*
25.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.2	*	*
26.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.2	*	*
27.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.3	*	*
28.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.3	*	*
29.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.4	*	*
30.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.4	*	*
31.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.1	0.5	*	*
32.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.1	0.5	*	*
33.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	0.1	0.6	*	*
34.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.1	0.7	*	*
35.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.1	0.8	*	*
36.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.2	0.9	*	*
37.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.3	0.2	1.0	*	*
38.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	0.2	1.1	*	*
39.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	0.2	1.1	*	*
40.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	0.2	1.2	*	*
41.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	0.2	1.3	*	*
42.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.0	0.2	1.5	*	*
43.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.1	0.2	1.6	*	*
44.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.3	0.2	1.7	*	*
45.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4	0.2	1.8	*	*
46.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.6	0.2	2.0	*	*
47.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.8	0.2	2.1	*	*
48.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.0	0.2	2.2	*	*
49.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.0	0.2	2.1	*	*

MASS PROPERTIES

[illegible]

MASS PROPERTIES

TIME	NDM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	POB	POB
50.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.9	0.2	2.3	2.3	2.3
51.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.1	0.3	2.4	2.4	2.4
52.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.4	0.3	2.6	2.6	2.6
53.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.3	2.8	2.8	2.8
54.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.9	0.3	3.0	3.0	3.0
55.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.1	0.3	3.2	3.2	3.2
56.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.4	0.4	3.4	3.4	3.4
57.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.8	0.4	3.6	3.6	3.6
58.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.1	0.5	3.9	3.9	3.9
59.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.5	4.1	4.1	4.1
60.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.0	0.6	4.4	4.4	4.4
61.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.5	0.6	4.8	4.8	4.8
62.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	7.0	0.7	5.1	5.1	5.1
63.0	6.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	7.6	0.8	5.5	5.5	5.5
64.0	6.8	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.2	0.9	6.0	6.0	6.0
65.0	7.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	8.9	1.0	6.4	6.4	6.4
66.0	8.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.7	1.1	6.9	6.9	6.9
67.0	8.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	10.5	1.2	7.5	7.5	7.5
68.0	9.5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.5	1.4	8.1	8.1	8.1
69.0	10.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	12.4	1.5	8.8	8.8	8.8
70.0	11.2	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	13.5	1.7	9.5	9.5	9.5
71.0	12.2	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	14.7	1.9	10.3	10.3	10.3
72.0	13.3	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	15.9	2.1	11.2	11.2	11.2
73.0	14.4	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	17.3	2.3	12.2	12.2	12.2
74.0	15.7	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	18.7	2.5	13.2	13.2	13.2
75.0	17.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	20.2	2.7	14.3	14.3	14.3
76.0	18.4	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	21.8	2.9	15.5	15.5	15.5
77.0	19.9	-0.2	0.1	0.0	0.0	0.0	0.0	0.0								

MASS PROPERTIES

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	NEG
50.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.9	0.2	2.3	*	*
51.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.1	0.3	2.4	*	*
52.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.4	0.3	2.6	*	*
53.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.3	2.8	*	*
54.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.9	0.3	3.0	*	*
55.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.1	0.3	3.2	*	*
56.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.4	0.4	3.4	*	*
57.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.8	0.4	3.6	*	*
58.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.1	0.5	3.9	*	*
59.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.5	4.1	*	*
60.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.0	0.6	4.4	*	*
61.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.5	0.6	4.8	*	*
62.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	7.0	0.7	5.1	*	*
63.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	7.6	0.8	5.5	*	*
64.0	6.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.2	0.9	6.0	*	*
65.0	7.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	8.9	1.0	6.4	*	*
66.0	8.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	9.7	1.1	6.9	*	*
67.0	8.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	10.5	1.2	7.5	*	*
68.0	9.5	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	11.5	1.4	8.1	*	*
69.0	10.3	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	12.4	1.5	8.8	*	*
70.0	11.2	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	13.5	1.7	9.5	*	*
71.0	12.2	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	14.7	1.9	10.3	*	*
72.0	13.3	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	15.9	2.1	11.2	*	*
73.0	14.4	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	17.3	2.3	12.2	*	*
74.0	15.7	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	18.7	2.5	13.2	*	*
75.0	17.0	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	20.2	2.7	14.3	*	*
76.0	18.4	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	21.8	2.9	15.5	*	*
77.0	19.9	0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	3.5	23.4	3.2	16.7	*	*
78.0	21.5	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	3.7	25.2	3.4	18.1	*	*
79.0	23.2	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	3.8	27.0	3.6	19.5	*	*
80.0	24.9	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.0	28.9	3.9	21.1	*	*
81.0	26.8	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.1	30.9	4.1	22.7	*	*
82.0	28.7	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.3	33.0	4.4	24.4	*	*
83.0	30.7	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.4	35.1	4.6	26.1	*	*
84.0	32.8	0.2	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.5	37.3	4.8	28.0	*	*
85.0	35.0	0.2	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.6	39.6	5.1	29.9	*	*
86.0	37.3	0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.7	42.0	5.3	31.9	*	*
87.0	39.6	0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.8	44.4	5.6	34.0	*	*
88.0	42.0	0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.9	46.9	5.8	36.2	*	*
89.0	44.5	0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	5.0	49.5	6.1	38.4	*	*
90.0	47.0	0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	5.1	52.1	6.3	40.7	*	*
91.0	49.6	0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	5.1	54.8	6.5	43.1	*	*
92.0	52.3	0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	5.2	57.5	6.7	45.6	*	*
93.0	55.0	0.3	-0.2	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	5.3	60.3	7.0	48.1	*	*
94.0	57.8	0.4	-0.2	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	5.3	63.1	7.2	50.6	*	*
95.0	60.6	0.4	-0.2	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	5.4	66.0	7.4	53.2	*	*
96.0	63.5	0.4	-0.2	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	5.5	69.0	7.6	55.9	*	*
97.0	66.4	0.4	-0.2	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	5.5	72.0	7.8	58.6	*	*
98.0	69.4	0.4	-0.2	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	5.6	75.0	8.0	61.4	*	*
99.0	72.4	0.4	-0.2	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	5.7	78.1	8.2	64.2	*	*

MASS PROPERTIES

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	POS
100.0	75.4	-0.5	0.2	0.0	0.0	0.0	0.3	0.1	0.0	0.0	5.8	81.2	8.4	67.1	*	*
101.0	78.5	-0.5	0.2	0.0	0.0	0.0	0.3	0.1	0.0	0.0	5.8	84.3	8.5	70.0	*	*
102.0	81.6	-0.5	0.2	0.0	0.0	0.0	0.4	0.1	0.0	0.0	5.9	87.5	8.7	72.9	*	*
103.0	84.7	-0.5	0.2	0.0	0.0	0.0	0.4	0.1	0.0	0.0	6.0	90.7	8.8	75.8	*	*
104.0	87.8	-0.5	0.2	0.0	0.0	0.0	0.4	0.1	0.0	0.0	6.2	94.0	9.0	78.8	*	*
105.0	90.8	-0.5	0.2	0.0	0.0	0.0	0.4	0.1	0.0	0.0	6.4	97.2	9.0	81.8	*	*
106.0	93.9	-0.5	0.3	0.0	0.0	0.0	0.4	0.1	0.0	0.0	6.6	100.5	9.1	84.8	*	*
107.0	96.8	-0.5	0.3	0.0	0.0	0.0	0.4	0.2	0.0	0.0	7.1	106.8	9.0	90.7	*	*
108.0	99.7	-0.5	0.3	0.0	0.0	0.0	0.5	0.2	0.0	0.0	7.3	109.8	8.9	93.6	*	*
109.0	102.5	-0.6	0.3	0.0	0.0	0.0	0.5	0.2	0.0	0.0	7.5	112.8	8.8	96.5	*	*
110.0	105.3	-0.6	0.3	0.0	0.0	0.0	0.5	0.2	0.0	0.0	7.7	115.7	8.7	99.3	*	*
111.0	107.9	-0.6	0.3	0.0	0.0	0.0	0.5	0.2	0.0	0.0	7.9	118.5	8.6	102.0	*	*
112.0	110.5	-0.6	0.3	0.0	0.0	0.0	0.6	0.2	0.0	0.0	8.1	121.2	8.5	104.6	*	*
113.0	113.1	-0.6	0.3	0.0	0.0	0.0	0.6	0.2	0.0	0.0	8.3	123.9	8.6	106.9	*	*
114.0	115.5	-0.6	0.3	0.0	0.0	0.0	0.6	0.2	0.0	0.0	8.5	126.4	9.1	108.8	*	*
115.0	117.9	-0.6	0.3	0.0	0.0	0.0	0.6	0.2	0.0	0.0	8.7	128.9	9.5	110.7	*	*
116.0	120.2	-0.6	0.3	0.0	0.0	0.0	0.6	0.2	0.0	0.0	8.9	131.4	10.0	112.4	*	*
117.0	122.5	-0.6	0.3	0.0	0.0	0.0	0.6	0.2	0.0	0.0	9.1	133.7	10.5	114.2	*	*
118.0	124.6	-0.7	0.3	0.0	0.0	0.0	0.6	0.2	0.0	0.0	9.3	136.1	10.9	115.8	*	*
119.0	126.8	-0.7	0.3	0.0	0.0	0.0	0.7	0.2	0.0	0.0	9.5	138.3	11.4	117.4	*	*
120.0	128.9	-0.7	0.3	0.0	0.0	0.0	0.7	0.2	0.0	0.0	9.6	140.5	11.9	119.0	*	*
121.0	130.9	-0.7	0.3	0.0	0.0	-0.1	0.7	0.2	0.0	0.0	9.8	142.7	12.3	120.5	*	*
122.0	132.9	-0.7	0.3	0.0	0.0	-0.1	0.7	0.2	0.0	0.0	10.0	144.8	12.8	122.0	*	*
123.0	134.8	-0.7	0.3	0.0	0.0	-0.1	0.7	0.2	0.0	0.0	10.2	146.8	13.2	123.4	*	*
124.0	136.6	-0.7	0.3	0.0	0.0	-0.1	0.7	0.2	0.0	0.0	10.3	148.8	13.7	124.8	*	*
125.0	138.5	-0.7	0.3	0.0	0.0	-0.1	0.8	0.2	0.0	0.0	10.5	150.8	14.1	126.1	*	*
126.0	140.3	-0.7	0.3	0.0	0.0	-0.1	0.8	0.2	0.0	0.0	10.7	152.7	14.6	127.4	*	*
127.0	142.0	-0.7	0.3	0.0	0.0	-0.1	0.8	0.2	0.0	0.0	10.9	154.6	15.0	128.7	*	*
128.0	143.7	-0.7	0.3	0.0	0.0	-0.1	0.8	0.2	0.0	0.0	11.0	156.4	15.4	129.9	*	*
129.0	145.3	-0.7	0.3	0.0	0.0	-0.1	0.8	0.2	0.0	0.0	11.2	158.2	15.9	131.1	*	*
130.0	147.0	-0.7	0.3	0.0	0.0	-0.1	0.8	0.2	0.0	0.0	11.2	158.2	15.9	131.1	*	*
140.0	161.1	-0.8	0.3	0.0	0.0	-0.1	1.0	0.3	0.0	0.0	13.1	174.2	19.8	141.3	*	*
150.0	172.5	-0.8	0.3	0.0	0.0	-0.1	1.1	0.3	0.0	0.0	14.9	187.4	23.2	149.3	*	*
160.0	181.8	-0.8	0.3	0.0	0.0	-0.1	1.2	0.3	0.0	0.0	16.8	198.6	26.6	155.2	*	*
170.0	189.1	-0.9	0.3	0.0	0.0	-0.1	1.3	0.3	0.0	0.0	18.5	207.6	29.3	159.7	*	*
180.0	195.0	-0.9	0.3	0.0	0.0	-0.1	1.4	0.3	0.0	0.0	20.0	215.0	31.6	163.3	*	*
190.0	199.8	-0.9	0.3	0.0	0.0	-0.1	1.5	0.3	0.0	0.0	21.3	221.1	33.6	166.2	*	*
200.0	204.0	-0.9	0.3	0.0	0.0	-0.1	1.6	0.3	0.0	0.0	22.4	226.4	35.4	168.6	*	*
210.0	207.7	-0.9	0.3	0.0	0.0	-0.1	1.6	0.4	0.0	0.0	23.5	231.1	37.1	170.6	*	*
220.0	210.8	-0.9	0.2	0.0	0.0	-0.1	1.7	0.4	0.0	0.0	24.5	235.2	38.5	172.3	*	*
230.0	213.6	-0.9	0.2	0.0	0.0	-0.1	1.8	0.4	0.0	0.0	25.3	238.9	39.7	173.9	*	*
240.0	216.2	-0.9	0.2	0.0	0.0	-0.1	1.8	0.4	0.0	0.0	26.1	242.3	40.9	175.3	*	*
250.0	218.7	-0.9	0.2	0.0	0.0	-0.1	1.9	0.4	0.0	0.0	26.8	245.5	41.9	176.8	*	*
260.0	221.2	-0.9	0.2	0.0	0.0	-0.1	1.9	0.4	0.0	0.0	27.5	248.7	42.9	178.3	*	*
270.0	223.7	-0.9	0.2	0.0	0.0	-0.1	1.9	0.4	0.0	0.0	28.2	251.9	43.9	179.8	*	*
280.0	226.3	-0.9	0.2	0.0	0.0	-0.1	2.0	0.4	0.0	0.0	28.9	255.1	44.9	181.4	*	*
290.0	229.0	-0.9	0.2	0.0	0.0	-0.1	2.0	0.4	0.0	0.0	29.5	258.6	45.9	183.1	*	*
300.0	232.0	-0.9	0.2	0.0	0.0	-0.1	2.1	0.4	0.0	0.0	30.3	262.3	47.0	185.0	*	*
310.0	235.3	-1.0	0.2	0.0	0.0	-0.1	2.1	0.4	0.0	0.0	31.0	266.3	48.1	187.1	*	*
320.0	238.9	-1.0	0.2	0.0	0.0	-0.1	2.2	0.4	0.0	0.0	31.8	270.8	49.4	189.5	*	*

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	NEG
100.0	75.4	0.4	-0.3	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	5.8	81.2	8.4	67.1	*	*
101.0	78.5	0.4	-0.3	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	5.8	84.3	8.5	70.0	*	*
102.0	81.6	0.5	-0.3	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	5.9	87.5	8.7	72.9	*	*
103.0	84.7	0.5	-0.3	0.0	0.0	0.0	-0.3	-0.1	0.0	0.0	6.0	90.7	8.8	75.8	*	*
104.0	87.8	0.5	-0.3	0.0	0.0	0.1	-0.3	-0.1	0.0	0.0	6.2	94.0	9.0	78.8	*	*
105.0	90.8	0.5	-0.3	0.0	0.0	0.1	-0.3	-0.1	0.0	0.0	6.4	97.2	9.0	81.8	*	*
106.0	93.9	0.5	-0.3	0.0	0.0	0.1	-0.3	-0.1	0.0	0.0	6.6	100.5	9.1	84.8	*	*
107.0	96.8	0.5	-0.3	0.0	0.0	0.1	-0.3	-0.1	0.0	0.0	6.9	103.7	9.1	87.8	*	*
108.0	99.7	0.5	-0.3	0.0	0.0	0.1	-0.3	-0.1	0.0	0.0	7.1	106.8	9.0	90.7	*	*
109.0	102.5	0.5	-0.3	0.0	0.0	0.1	-0.3	-0.1	0.0	0.0	7.3	109.8	8.9	93.6	*	*
110.0	105.3	0.5	-0.3	0.0	0.0	0.1	-0.4	-0.1	0.0	0.0	7.5	112.8	8.8	96.5	*	*
111.0	107.9	0.6	-0.3	0.0	0.0	0.1	-0.4	-0.1	0.0	0.0	7.7	115.7	8.7	99.3	*	*
112.0	110.5	0.6	-0.3	0.0	0.0	0.1	-0.4	-0.2	0.0	0.0	7.9	118.5	8.6	102.0	*	*
113.0	113.1	0.6	-0.3	0.0	0.0	0.1	-0.4	-0.2	0.0	0.0	8.1	121.2	8.5	104.6	*	*
114.0	115.5	0.6	-0.3	0.0	0.0	0.1	-0.4	-0.2	0.0	0.0	8.3	123.9	8.6	106.9	*	*
115.0	117.9	0.6	-0.3	0.0	0.0	0.1	-0.4	-0.2	0.0	0.0	8.5	126.4	9.1	108.8	*	*
116.0	120.2	0.6	-0.3	0.0	0.0	0.1	-0.4	-0.2	0.0	0.0	8.7	128.9	9.5	110.7	*	*
117.0	122.5	0.6	-0.3	0.0	0.0	0.1	-0.4	-0.2	0.0	0.0	8.9	131.4	10.0	112.4	*	*
118.0	124.6	0.6	-0.3	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	9.1	133.7	10.5	114.2	*	*
119.0	126.8	0.6	-0.3	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	9.3	136.1	10.9	115.8	*	*
120.0	128.9	0.6	-0.4	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	9.5	138.3	11.4	117.4	*	*
121.0	130.9	0.7	-0.4	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	9.6	140.5	11.9	119.0	*	*
122.0	132.9	0.7	-0.4	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	9.8	142.7	12.3	120.5	*	*
123.0	134.8	0.7	-0.4	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	10.0	144.8	12.8	122.0	*	*
124.0	136.6	0.7	-0.4	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	10.2	146.8	13.2	123.4	*	*
125.0	138.5	0.7	-0.4	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	10.3	148.8	13.7	124.8	*	*
126.0	140.3	0.7	-0.4	0.0	0.0	0.1	-0.5	-0.2	0.0	0.0	10.5	150.8	14.1	126.1	*	*
127.0	142.0	0.7	-0.4	0.0	0.0	0.1	-0.6	-0.2	0.0	0.0	10.7	152.7	14.6	127.4	*	*
128.0	143.7	0.7	-0.4	0.0	0.0	0.1	-0.6	-0.2	0.0	0.0	10.9	154.6	15.0	128.7	*	*
129.0	145.3	0.7	-0.4	0.0	0.0	0.1	-0.6	-0.2	0.0	0.0	11.0	156.4	15.4	129.9	*	*
130.0	147.0	0.7	-0.4	0.0	0.0	0.1	-0.6	-0.2	0.0	0.0	11.2	158.2	15.9	131.1	*	*
140.0	161.1	0.8	-0.4	0.0	0.0	0.1	-0.7	-0.2	0.0	0.0	13.1	174.2	19.8	141.3	*	*
150.0	172.5	0.8	-0.4	0.0	0.0	0.1	-0.8	-0.2	0.0	0.0	14.9	187.4	23.2	149.3	*	*
160.0	181.8	0.8	-0.4	0.0	0.0	0.1	-0.9	-0.2	0.0	0.0	16.8	198.6	26.6	155.2	*	*
170.0	189.1	0.8	-0.4	0.0	0.0	0.1	-1.0	-0.3	0.0	0.0	18.5	207.6	29.3	159.7	*	*
180.0	195.8	0.8	-0.4	0.0	0.0	0.1	-1.0	-0.3	0.0	0.0	20.0	215.0	31.6	163.3	*	*
190.0	199.8	0.8	-0.4	0.0	0.0	0.1	-1.1	-0.3	0.0	0.0	21.3	221.1	33.6	166.2	*	*
200.0	204.0	0.8	-0.4	0.0	0.0	0.2	-1.1	-0.3	0.0	0.0	22.4	226.4	35.4	168.6	*	*
210.0	207.7	0.8	-0.3	0.0	0.0	0.2	-1.2	-0.3	0.0	0.0	23.5	231.1	37.1	170.6	*	*
220.0	210.8	0.8	-0.3	0.0	0.0	0.2	-1.2	-0.3	0.0	0.0	24.5	235.2	38.5	172.3	*	*
230.0	213.6	0.8	-0.3	0.0	0.0	0.2	-1.3	-0.3	0.0	0.0	25.3	238.9	39.7	173.9	*	*
240.0	216.2	0.8	-0.3	0.0	0.0	0.2	-1.3	-0.3	0.0	0.0	26.1	242.3	40.9	175.3	*	*
250.0	218.7	0.8	-0.3	0.0	0.0	0.2	-1.4	-0.3	0.0	0.0	26.8	245.5	41.9	176.8	*	*
260.0	221.2	0.9	-0.3	0.0	0.0	0.2	-1.4	-0.3	0.0	0.0	27.5	248.7	42.9	178.3	*	*
270.0	223.7	0.9	-0.3	0.0	0.0	0.2	-1.4	-0.3	0.0	0.0	28.2	251.9	43.9	179.8	*	*
280.0	226.3	0.9	-0.3	0.0	0.0	0.2	-1.5	-0.3	0.0	0.0	28.9	255.1	44.9	181.4	*	*
290.0	229.0	0.9	-0.3	0.0	0.0	0.2	-1.5	-0.3	0.0	0.0	29.5	258.6	45.9	183.1	*	*
300.0	232.0	0.9	-0.3	0.0	0.0	0.2	-1.5	-0.3	0.0	0.0	30.3	262.3	47.0	185.0	*	*
310.0	235.3	0.9	-0.3	0.0	0.0	0.2	-1.6	-0.3	0.0	0.0	31.0	266.3	48.1	187.1	*	*
320.0	238.9	1.0	-0.3	0.0	0.0	0.2	-1.6	-0.3	0.0	0.0	31.8	270.8	49.4	189.5	*	*

MASS PROPERTIES

TIME	NOM	VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	POS
330.0	243.0	-1.0	0.2	0.0	0.0	0.0	-0.1	2.3	0.4	0.0	0.0	32.7	275.8	50.7	192.3	*	*
340.0	247.7	-1.1	0.1	0.0	0.0	0.0	-0.1	2.3	0.4	0.0	0.0	33.8	281.5	52.2	195.6	*	*
350.0	253.2	-1.1	0.1	0.0	0.0	0.0	-0.1	2.4	0.4	0.0	0.0	34.9	288.1	53.8	199.4	*	*
360.0	259.6	-1.2	0.1	0.0	0.0	0.0	-0.1	2.5	0.4	0.0	0.0	36.1	295.7	55.5	204.0	*	*
370.0	267.1	-1.3	0.1	0.0	0.0	0.0	-0.1	2.6	0.4	0.0	0.0	37.4	304.6	57.5	209.6	*	*
380.0	276.1	-1.4	0.1	0.0	0.0	0.0	-0.1	2.7	0.5	0.0	0.0	38.9	315.0	59.7	216.4	*	*
390.0	286.9	-1.5	0.1	0.0	0.0	0.0	-0.1	2.8	0.5	0.0	0.0	40.5	327.4	62.1	224.8	*	*
400.0	299.9	-1.7	0.1	0.0	0.0	0.0	-0.1	2.8	0.5	0.0	0.0	42.2	342.1	64.7	235.2	*	*
410.0	315.5	-1.9	0.1	0.0	0.0	0.0	-0.1	2.9	0.5	0.0	0.0	44.1	359.6	67.3	248.1	*	*
420.0	334.3	-2.1	0.1	0.0	0.0	0.0	-0.1	3.1	0.5	0.0	0.0	46.2	380.5	70.1	264.1	*	*
430.0	356.8	-2.4	0.1	0.0	0.0	0.0	-0.1	3.2	0.5	0.0	0.0	48.4	405.2	73.0	283.8	*	*
440.0	383.4	-3.1	0.1	0.0	0.0	0.0	-0.1	3.2	0.5	0.0	0.0	50.6	434.0	75.7	307.6	*	*
450.0	414.4	-3.8	0.1	0.0	0.0	0.0	-0.1	3.3	0.5	0.0	0.0	52.8	467.2	78.3	336.1	*	*
460.0	450.1	-3.5	0.2	0.0	0.0	0.0	-0.1	3.4	0.5	0.0	0.0	54.8	504.9	80.6	369.5	*	*
470.0	490.3	-3.9	0.2	0.0	0.0	0.0	-0.1	3.4	0.5	0.0	0.0	56.7	547.0	82.4	407.9	*	*
480.0	535.0	-4.2	0.2	0.0	0.0	0.0	-0.1	3.5	0.5	0.0	0.0	58.3	593.3	83.9	451.1	*	*

MASS PROPERTIES

TIME	NOM	VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	NEG
330.0	243.0	1.0	-0.3	-0.3	0.0	0.0	0.2	-1.7	-0.3	0.0	0.0	32.7	275.8	50.7	192.3	*	*
340.0	247.7	1.0	-0.2	-0.2	0.0	0.0	0.2	-1.7	-0.3	0.0	0.0	33.8	281.5	52.2	195.6	*	*
350.0	253.2	1.1	-0.2	-0.2	0.0	0.0	0.2	-1.8	-0.3	0.0	0.0	34.9	288.1	53.8	199.4	*	*
360.0	259.6	1.1	-0.2	-0.2	0.0	0.0	0.2	-1.8	-0.3	0.0	0.0	36.1	295.7	55.5	204.0	*	*
370.0	267.1	1.2	-0.2	-0.2	0.0	0.0	0.2	-1.9	-0.3	0.0	0.0	37.4	304.6	57.5	209.6	*	*
380.0	276.1	1.3	-0.2	-0.2	0.0	0.0	0.2	-2.0	-0.3	0.0	0.0	38.9	315.0	59.7	216.4	*	*
390.0	286.9	1.5	-0.2	-0.2	0.0	0.0	0.2	-2.0	-0.3	0.0	0.0	40.5	327.4	62.1	224.8	*	*
400.0	299.9	1.6	-0.2	-0.2	0.0	0.0	0.2	-2.1	-0.3	0.0	0.0	42.2	342.1	64.7	235.2	*	*
410.0	315.5	1.8	-0.2	-0.2	0.0	0.0	0.2	-2.2	-0.3	0.0	0.0	44.1	359.6	67.3	248.1	*	*
420.0	334.3	2.1	-0.2	-0.2	0.0	0.0	0.2	-2.3	-0.3	0.0	0.0	46.2	380.5	70.1	264.1	*	*
430.0	356.8	2.4	-0.2	-0.2	0.0	0.0	0.2	-2.4	-0.4	0.0	0.0	48.4	405.2	73.0	283.8	*	*
440.0	383.4	2.7	-0.3	-0.3	0.0	0.0	0.2	-2.4	-0.4	0.0	0.0	50.6	434.0	75.7	307.6	*	*
450.0	414.4	3.1	-0.3	-0.3	0.0	0.0	0.2	-2.5	-0.4	0.0	0.0	52.8	467.2	78.3	336.1	*	*
460.0	450.1	3.4	-0.3	-0.3	0.0	0.0	0.2	-2.5	-0.4	0.0	0.0	54.8	504.9	80.6	369.5	*	*
470.0	490.3	3.8	-0.4	-0.4	0.0	0.0	0.2	-2.6	-0.4	0.0	0.0	56.7	547.0	82.4	407.9	*	*
480.0	535.0	4.2	-0.4	-0.4	0.0	0.0	0.2	-2.6	-0.4	0.0	0.0	58.3	593.3	83.9	451.1	*	*

GN/C										AH1 POS									
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS						
50.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.9	0.2	2.3						
51.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.1	0.3	2.4						
52.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.4	0.3	2.6						
53.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.3	2.8						
54.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.9	0.3	3.0						
55.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.1	0.3	3.2						
56.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.4	0.4	3.4						
57.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.8	0.4	3.6						
58.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.1	0.5	3.9						
59.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.5	4.1						
60.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.0	0.6	4.4						
61.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.5	0.6	4.8						
62.0	5.8	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.2	7.0	0.7	5.1						
63.0	6.3	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.3	7.6	0.8	5.5						
64.0	6.8	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.4	8.2	0.9	6.0						
65.0	7.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	8.9	1.0	6.4						
66.0	8.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	9.7	1.1	6.9						
67.0	8.7	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.8	10.5	1.2	7.5						
68.0	9.5	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.9	11.5	1.4	8.1						
69.0	10.3	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.1	12.4	1.5	8.8						
70.0	11.2	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.3	13.5	1.7	9.5						
71.0	12.2	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	2.5	14.7	1.9	10.3						
72.0	13.3	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	2.6	15.9	2.1	11.2						
73.0	14.4	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	2.8	17.3	2.3	12.2						
74.0	15.7	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.0	18.7	2.5	13.2						
75.0	17.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.2	20.2	2.7	14.3						
76.0	18.4	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	3.4	21.8	2.9	15.5						
77.0	19.9	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	3.5	23.4	3.2	16.7						
78.0	21.5	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	0.0	3.7	25.2	3.4	18.1						
79.0	23.2	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	0.0	3.8	27.0	3.6	19.5						
80.0	24.9	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	0.0	4.0	28.9	3.9	21.1						
81.0	26.8	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	0.0	4.1	30.9	4.1	22.7						
82.0	28.7	0.0	-0.1	0.0	0.0	-0.5	0.0	0.0	0.0	4.3	33.0	4.4	24.4						
83.0	30.7	0.0	-0.1	0.0	0.0	-0.5	0.0	0.0	0.0	4.4	35.1	4.6	26.1						
84.0	32.8	0.0	-0.1	0.0	0.0	-0.6	0.0	0.0	0.0	4.5	37.3	4.8	28.0						
85.0	35.0	0.0	-0.1	0.0	0.0	-0.6	0.0	0.0	0.0	4.6	39.6	5.1	29.9						
86.0	37.3	0.0	-0.1	0.0	0.0	-0.7	0.0	0.0	0.0	4.7	42.0	5.3	31.9						
87.0	39.6	0.0	-0.1	0.0	0.0	-0.7	0.0	0.0	0.0	4.8	44.4	5.6	34.0						
88.0	42.0	0.0	-0.1	0.0	0.0	-0.8	0.0	0.0	0.0	4.9	46.9	5.8	36.2						
89.0	44.5	0.0	-0.1	0.0	0.0	-0.8	0.0	0.0	0.0	5.0	49.5	6.1	38.4						
90.0	47.0	0.0	-0.1	0.0	0.0	-0.9	0.0	0.0	0.0	5.1	52.1	6.3	40.7						
91.0	49.6	0.0	-0.1	0.0	0.0	-0.9	0.0	0.0	0.0	5.1	54.8	6.5	43.1						
92.0	52.3	0.0	-0.2	0.0	0.0	-1.0	0.0	0.0	0.0	5.2	57.5	6.7	45.6						
93.0	55.0	0.0	-0.2	0.0	0.0	-1.1	0.0	0.0	0.0	5.3	60.3	7.0	48.1						
94.0	57.8	0.0	-0.2	0.0	0.0	-1.1	0.0	0.0	0.0	5.3	63.1	7.2	50.6						
95.0	60.6	0.0	-0.2	0.0	0.0	-1.2	0.0	0.0	0.0	5.4	66.0	7.4	53.2						
96.0	63.5	0.0	-0.2	0.0	0.0	-1.3	0.0	0.0	0.0	5.5	69.0	7.6	55.9						
97.0	66.4	0.0	-0.2	0.0	0.0	-1.4	0.0	0.0	0.0	5.5	72.0	7.8	58.6						
98.0	69.4	0.0	-0.2	0.0	0.0	-1.4	0.0	0.0	0.0	5.6	75.0	8.0	61.4						
99.0	72.4	0.0	-0.2	0.0	0.0	-1.5	0.0	0.0	0.0	5.7	78.1	8.2	64.2						

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	
50.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.9	0.2	2.3	
51.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.1	0.3	2.4	
52.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.4	0.3	2.6	
53.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.3	2.8	
54.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.9	0.3	3.0	
55.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.1	0.3	3.2	
56.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.4	0.4	3.4	
57.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.8	0.4	3.6	
58.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.1	0.5	3.9	
59.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.5	4.1	
60.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.0	0.6	4.4	
61.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.5	0.6	4.8	
62.0	5.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2	7.0	0.7	5.1	
63.0	6.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	7.6	0.8	5.5	
64.0	6.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.4	8.2	0.9	6.0	
65.0	7.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	8.9	1.0	6.4	
66.0	8.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.6	9.7	1.1	6.9	
67.0	8.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	10.5	1.2	7.5	
68.0	9.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.9	11.5	1.4	8.1	
69.0	10.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	2.1	12.4	1.5	8.8	
70.0	11.2	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.3	13.5	1.7	9.5	
71.0	12.2	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.5	14.7	1.9	10.3	
72.0	13.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.6	15.9	2.1	11.2	
73.0	14.4	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.8	17.3	2.3	12.2	
74.0	15.7	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	3.0	18.7	2.5	13.2	
75.0	17.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	3.2	20.2	2.7	14.3	
76.0	18.4	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	3.4	21.8	2.9	15.5	
77.0	19.9	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	3.5	23.4	3.2	16.7	
78.0	21.5	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	3.7	25.2	3.4	18.1	
79.0	23.2	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	3.8	27.0	3.6	19.5	
80.0	24.9	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	4.0	28.9	3.9	21.1	
81.0	26.8	0.0	0.2	0.0	0.0	0.5	0.0	0.0	0.0	4.1	30.9	4.1	22.7	
82.0	28.7	0.0	0.2	0.0	0.0	0.5	0.0	0.0	0.0	4.3	33.0	4.4	24.4	
83.0	30.7	0.0	0.2	0.0	0.0	0.6	0.0	0.0	0.0	4.4	35.1	4.6	26.1	
84.0	32.8	0.0	0.2	0.0	0.0	0.6	0.0	0.0	0.0	4.5	37.3	4.8	28.0	
85.0	35.0	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.0	4.6	39.6	5.1	29.9	
86.0	37.3	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.0	4.7	42.0	5.3	31.9	
87.0	39.6	0.0	0.2	0.0	0.0	0.8	0.0	0.0	0.0	4.8	44.4	5.6	34.0	
88.0	42.0	0.0	0.3	0.0	0.0	0.8	0.0	0.0	0.0	4.9	46.9	5.8	36.2	
89.0	44.5	0.0	0.3	0.0	0.0	0.9	0.0	0.0	0.0	5.0	49.5	6.1	38.4	
90.0	47.0	0.0	0.3	0.0	0.0	1.0	0.0	0.0	0.0	5.1	52.1	6.3	40.7	
91.0	49.6	0.0	0.3	0.0	0.0	1.0	0.0	0.0	0.0	5.1	54.8	6.5	43.1	
92.0	52.3	0.0	0.3	0.0	0.0	1.1	0.0	0.0	0.0	5.2	57.5	6.7	45.6	
93.0	55.0	0.0	0.4	0.0	0.0	1.2	0.0	0.0	0.0	5.3	60.3	7.0	48.1	
94.0	57.8	0.0	0.4	0.0	0.0	1.3	0.0	0.0	0.0	5.3	63.1	7.2	50.6	
95.0	60.6	0.0	0.4	0.0	0.0	1.3	0.0	0.0	0.0	5.4	66.0	7.4	53.2	
96.0	63.5	0.0	0.4	0.0	0.0	1.4	0.0	0.0	0.0	5.5	69.0	7.6	55.9	
97.0	66.4	0.0	0.5	0.0	0.0	1.5	0.0	0.0	0.0	5.5	72.0	7.8	58.6	
98.0	69.4	0.0	0.5	0.0	0.0	1.6	0.0	0.0	0.0	5.6	75.0	8.0	61.4	
99.0	72.4	0.0	0.5	0.0	0.0	1.7	0.0	0.0	0.0	5.7	78.1	8.2	64.2	

AHI **PDS**

C-30

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	NEG
100.0	75.4	0.0	0.5	0.0	0.0	1.8	0.0	0.0	0.0	5.8	81.2	8.4	67.1	*	*
101.0	78.5	0.0	0.6	0.0	0.0	1.9	0.0	0.0	0.0	5.8	84.3	8.5	70.0	*	*
102.0	81.6	0.0	0.6	0.0	0.0	2.0	0.0	0.0	0.0	5.9	87.5	8.7	72.9	*	*
103.0	84.7	0.0	0.6	0.0	0.0	2.1	0.0	0.1	0.0	6.0	90.7	8.8	75.8	*	*
104.0	87.8	0.0	0.7	0.0	0.0	2.2	0.0	0.1	0.0	6.2	94.0	9.0	78.8	*	*
105.0	90.8	0.0	0.7	0.0	0.0	2.3	0.0	0.1	0.0	6.4	97.2	9.0	81.8	*	*
106.0	93.9	0.0	0.7	0.0	0.0	2.4	0.0	0.1	0.0	6.6	100.5	9.1	84.8	*	*
107.0	96.8	0.0	0.7	0.0	0.0	2.5	0.0	0.1	0.0	6.9	103.7	9.1	87.8	*	*
108.0	99.7	0.0	0.8	0.0	0.0	2.6	-0.1	0.1	0.0	7.1	106.8	9.0	90.7	*	*
109.0	102.5	0.0	0.8	0.0	0.0	2.7	-0.1	0.1	0.0	7.3	109.8	8.9	93.6	*	*
110.0	105.3	0.0	0.8	0.0	0.0	2.8	-0.1	0.1	0.0	7.5	112.8	8.8	96.5	*	*
111.0	107.9	0.0	0.9	0.0	0.0	2.9	-0.1	0.1	0.0	7.7	115.7	8.7	99.3	*	*
112.0	110.5	0.0	0.9	0.0	0.0	2.9	-0.1	0.1	0.0	7.9	118.5	8.6	102.0	*	*
113.0	113.1	0.0	0.9	0.0	0.0	3.0	-0.1	0.1	0.0	8.1	121.2	8.5	104.6	*	*
114.0	115.5	0.0	0.9	0.0	0.0	3.1	-0.1	0.1	0.0	8.3	123.7	8.6	106.9	*	*
115.0	117.9	0.0	1.0	0.0	0.0	3.2	-0.1	0.1	0.0	8.5	126.4	9.1	108.8	*	*
116.0	120.2	0.0	1.0	0.0	0.0	3.3	-0.1	0.1	0.0	8.7	128.9	9.5	110.7	*	*
117.0	122.5	0.0	1.0	0.0	0.0	3.4	-0.1	0.1	0.0	8.9	131.4	10.0	112.4	*	*
118.0	124.6	0.0	1.1	0.0	0.0	3.5	-0.1	0.1	0.0	9.1	133.7	10.5	114.2	*	*
119.0	126.8	0.0	1.1	0.0	0.0	3.5	-0.1	0.1	0.0	9.3	136.1	10.9	115.8	*	*
120.0	128.9	0.0	1.1	0.0	0.0	3.6	-0.1	0.1	0.0	9.5	138.3	11.4	117.4	*	*
121.0	130.9	0.0	1.1	0.0	0.0	3.7	-0.1	0.1	0.0	9.6	140.5	11.9	119.0	*	*
122.0	132.9	0.0	1.1	0.0	0.0	3.8	-0.1	0.1	0.0	9.8	142.7	12.3	120.5	*	*
123.0	134.8	0.0	1.2	0.0	0.0	3.9	-0.1	0.1	0.0	10.0	144.8	12.8	122.0	*	*
124.0	136.6	0.0	1.2	0.0	0.0	4.0	-0.1	0.1	0.0	10.2	146.8	13.2	123.4	*	*
125.0	138.5	0.0	1.2	0.0	0.0	4.1	-0.1	0.1	0.0	10.3	148.8	13.7	124.8	*	*
126.0	140.3	0.0	1.2	0.0	0.0	4.1	-0.1	0.1	0.0	10.5	150.8	14.1	126.1	*	*
127.0	142.0	0.0	1.3	0.0	0.0	4.2	-0.1	0.1	0.0	10.7	152.7	14.6	127.4	*	*
128.0	143.7	0.0	1.3	0.0	0.0	4.3	-0.1	0.1	0.0	10.9	154.6	15.0	128.7	*	*
129.0	145.3	0.0	1.3	0.0	0.0	4.4	-0.1	0.1	0.0	11.0	156.4	15.4	129.9	*	*
130.0	147.0	0.0	1.3	0.0	0.0	4.5	-0.1	0.1	0.0	11.2	158.2	15.9	131.1	*	*
140.0	161.1	0.0	1.5	0.0	0.0	5.3	-0.1	0.1	0.0	13.1	174.2	19.8	141.3	*	*
150.0	172.5	0.0	1.7	0.0	0.0	6.0	-0.2	0.2	0.0	16.8	198.6	26.6	155.2	*	*
160.0	181.8	0.0	1.9	0.0	0.0	6.7	-0.2	0.2	0.0	18.5	207.6	29.3	159.7	*	*
170.0	189.1	0.0	2.2	0.0	0.0	7.4	-0.2	0.2	0.0	20.0	215.0	31.6	163.3	*	*
180.0	195.0	0.0	2.3	0.0	0.0	7.9	-0.2	0.2	0.0	21.3	221.1	33.6	166.2	*	*
190.0	199.8	0.0	2.4	0.0	0.0	8.4	-0.2	0.2	0.0	22.4	226.4	35.4	168.6	*	*
200.0	204.0	0.0	2.5	0.0	0.0	8.9	-0.2	0.2	0.0	23.5	231.1	37.1	170.6	*	*
210.0	207.7	0.0	2.6	0.0	0.0	9.3	-0.2	0.2	0.0	24.5	235.2	38.5	172.3	*	*
220.0	210.8	0.0	2.7	0.0	0.0	9.7	-0.2	0.2	0.0	25.3	238.9	39.7	173.9	*	*
230.0	213.6	0.0	2.7	0.0	0.0	10.1	-0.2	0.2	0.1	26.1	242.3	40.9	175.3	*	*
240.0	216.2	0.0	2.8	0.0	0.0	10.4	-0.2	0.2	0.1	26.8	245.5	41.9	176.8	*	*
250.0	218.7	0.0	2.9	0.0	0.0	10.7	-0.2	0.2	0.1	27.5	248.7	42.9	178.3	*	*
260.0	221.2	0.0	2.9	0.0	0.0	11.0	-0.2	0.2	0.1	28.2	251.9	43.9	179.8	*	*
270.0	223.7	0.0	3.0	0.0	0.0	11.3	-0.2	0.2	0.1	28.9	255.1	44.9	181.4	*	*
280.0	226.3	0.0	3.1	0.0	0.0	11.6	-0.2	0.2	0.1	29.5	258.6	45.9	183.1	*	*
290.0	229.0	0.0	3.1	0.0	0.0	11.9	-0.2	0.2	0.2	30.3	262.3	47.0	185.0	*	*
300.0	232.0	0.0	3.2	0.0	0.0	12.2	-0.2	0.2	0.2	31.0	266.3	48.1	187.1	*	*
310.0	235.3	0.0	3.2	0.0	0.0	12.5	-0.2	0.2	0.2	31.8	270.8	49.4	189.5	*	*
320.0	238.9	0.0	3.3	0.0	0.0	12.8	-0.2	0.2	0.2	31.8	270.8	49.4	189.5	*	*

		GN/C										AH1		POS	
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS		
330.0	243.0	0.0	-1.7	0.0	0.0	-11.5	0.3	-0.2	-0.3	32.7	275.8	50.7	192.3	*	*
340.0	247.7	0.0	-1.8	0.0	0.0	-11.9	0.3	-0.2	-0.4	33.8	281.5	52.2	195.6	*	*
350.0	253.2	0.0	-1.8	0.0	0.0	-12.2	0.3	-0.2	-0.4	34.9	288.1	53.8	199.4	*	*
360.0	259.6	0.0	-1.9	0.0	0.0	-12.7	0.3	-0.2	-0.5	36.1	295.7	55.5	204.0	*	*
370.0	267.1	0.0	-1.9	0.0	0.0	-13.1	0.3	-0.2	-0.7	37.4	304.6	57.5	209.6	*	*
380.0	276.1	0.0	-2.0	0.0	0.0	-13.6	0.4	-0.2	-0.8	38.9	315.0	59.7	216.4	*	*
390.0	286.9	0.0	-2.1	0.0	0.0	-14.1	0.4	-0.2	-1.0	40.5	327.4	62.1	224.8	*	*
400.0	299.9	0.0	-2.1	0.0	0.0	-14.6	0.4	-0.2	-1.3	42.2	342.1	64.7	235.2	*	*
410.0	315.5	0.0	-2.2	0.0	0.0	-15.2	0.4	-0.2	-1.6	44.1	359.6	67.3	248.1	*	*
420.0	334.3	0.0	-2.3	0.0	0.0	-15.7	0.4	-0.3	-2.0	46.2	380.5	70.1	264.1	*	*
430.0	356.8	0.0	-2.4	0.0	0.0	-16.2	0.4	-0.3	-2.6	48.4	405.2	73.0	283.8	*	*
440.0	383.4	0.0	-2.4	0.0	0.0	-16.7	0.4	-0.3	-3.2	50.6	434.0	75.7	307.6	*	*
450.0	414.4	0.0	-2.5	0.0	0.0	-17.2	0.5	-0.3	-4.0	52.8	467.2	78.3	336.1	*	*
460.0	450.1	0.0	-2.5	0.0	0.0	-17.5	0.5	-0.3	-5.0	54.8	504.9	80.6	369.5	*	*
470.0	490.3	0.0	-2.6	0.0	0.0	-17.7	0.5	-0.3	-6.1	56.7	547.0	82.4	407.9	*	*
480.0	535.0	0.0	-2.6	0.0	0.0	-17.9	0.5	-0.3	-7.3	58.3	593.3	83.9	451.1	*	*

GN/C

AHJ NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	AHJ	NEG
330.0	243.0	0.0	3.4	0.0	0.0	13.2	-0.3	0.3	0.3	32.7	275.8	50.7	192.3	*	*
340.0	247.7	0.0	3.5	0.0	0.0	13.6	-0.3	0.3	0.4	33.8	281.5	52.2	195.6	*	*
350.0	253.2	0.0	3.6	0.0	0.0	14.1	-0.3	0.3	0.5	34.9	288.1	53.8	199.4	*	*
360.0	259.6	0.0	3.7	0.0	0.0	14.5	-0.3	0.3	0.6	36.1	295.7	55.5	204.0	*	*
370.0	267.1	0.0	3.8	0.0	0.0	15.0	-0.3	0.4	0.7	37.4	304.6	57.5	209.6	*	*
380.0	276.1	0.0	3.9	0.0	0.0	15.6	-0.4	0.4	0.9	38.9	315.0	59.7	216.4	*	*
390.0	286.9	0.0	4.0	0.0	0.0	16.1	-0.4	0.4	1.1	40.5	327.4	62.1	224.8	*	*
400.0	299.9	0.0	4.2	0.0	0.0	16.7	-0.4	0.4	1.3	42.2	342.1	64.7	235.2	*	*
410.0	315.5	0.0	4.3	0.0	0.0	17.3	-0.4	0.4	1.7	44.1	359.6	67.3	248.1	*	*
420.0	334.3	0.0	4.4	0.0	0.0	17.9	-0.4	0.4	2.1	46.2	380.5	70.1	264.1	*	*
430.0	356.8	0.0	4.6	0.0	0.0	18.5	-0.4	0.4	2.6	48.4	405.2	73.0	283.8	*	*
440.0	383.4	0.0	4.7	0.0	0.0	19.0	-0.4	0.4	3.3	50.6	434.0	75.7	307.6	*	*
450.0	414.4	0.0	4.8	0.0	0.0	19.4	-0.5	0.4	4.1	52.8	467.2	78.3	336.1	*	*
460.0	450.1	0.0	4.9	0.0	0.0	19.8	-0.5	0.5	5.1	54.8	504.9	80.6	369.5	*	*
470.0	490.3	0.0	5.0	0.0	0.0	20.0	-0.5	0.5	6.3	56.7	547.0	82.4	407.9	*	*
480.0	535.0	0.0	5.0	0.0	0.0	20.2	-0.5	0.5	7.5	58.3	593.3	83.9	451.1	*	*

PROPULSION

TIME	ALPHA POS									
	NOM	VAL	1	2	3	4	5	6	7	8
0.0	-89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.0	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.0	-2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.0	-3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.0	-3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	-4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.0	-4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.0	-4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36.0	-4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.0	-4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38.0	-4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39.0	-4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.0	-5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41.0	-5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.0	-5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44.0	-5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	-5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46.0	-5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.0	-5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48.0	-5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PROPULSION

	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NON-RSS	ALPHA	NEG
TIME	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-89.5	0.0	0.0	-89.5	
NOM VAL	-89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-89.5	0.0	0.0	-89.5	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	0.6	0.6	-1.5	
	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.4	0.4	2.7	
	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.5	0.5	3.6	
	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.6	0.6	3.9	
	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.7	0.7	3.9	
	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.7	0.7	3.8	
	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.8	0.8	3.7	
	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.9	0.9	3.4	
	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	1.1	1.1	2.8	
	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1.1	1.1	2.2	
	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.1	1.1	1.5	
	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.1	1.1	1.0	
	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.1	1.1	0.7	
	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.2	1.2	0.4	
	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.2	1.2	0.0	
	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.2	1.2	-0.7	
	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.8	-1.4	
	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.8	-2.4	
	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.8	0.8	-2.9	
	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.3	0.7	0.7	-3.4	
	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.2	0.6	0.6	-4.0	
	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.3	0.7	0.7	-4.5	
	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.7	0.8	0.8	-5.1	
	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.8	0.8	0.8	-5.3	
	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.8	0.8	0.8	-5.3	
	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.6	0.8	0.8	-5.2	
	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.6	0.8	0.8	-5.2	
	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.5	0.9	0.9	-5.3	
	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.5	0.9	0.9	-5.4	
	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-3.7	0.8	0.8	-5.4	
	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.1	0.7	0.7	-5.5	
	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.2	0.8	0.8	-5.7	
	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.3	0.9	0.9	-5.9	
	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.4	0.8	0.8	-6.0	
	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.5	0.9	0.9	-6.1	
	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.5	0.8	0.8	-6.2	
	36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.7	0.8	0.8	-6.3	
	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-4.8	0.7	0.7	-6.4	
	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.0	0.8	0.8	-6.5	
	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.1	0.9	0.9	-6.6	
	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.2	0.8	0.8	-6.7	
	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.3	0.9	0.9	-6.8	
	42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.5	0.8	0.8	-6.9	
	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.6	0.8	0.8	-7.0	
	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.7	0.7	0.7	-7.1	
	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.8	0.8	0.8	-7.2	
	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5.9	0.7	0.7	-7.3	
	47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.0	0.8	0.8	-7.4	
	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.1	0.7	0.7	-7.5	
	49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-6.2	0.8	0.8	-7.6	

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	POS
50.0	-5.3	0.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	-0.1	0.0	0.0	0.7	-4.6	0.8	-6.1	0.8	
51.0	-5.3	0.3	0.0	-0.1	0.0	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.7	-4.6	0.9	-6.2	0.9	
52.0	-5.4	0.2	0.0	-0.1	0.0	-0.1	0.1	0.0	0.0	0.0	-0.1	0.0	0.6	-4.7	0.9	-6.2	0.9	
53.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	0.8	
54.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.2	0.8	
55.0	-5.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	0.8	
56.0	-5.3	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.9	-6.1	0.9	
57.0	-5.2	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	-0.1	0.0	0.6	-4.6	1.0	-6.0	1.0	
58.0	-5.1	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	-0.1	0.0	0.6	-4.4	1.0	-5.8	1.0	
59.0	-4.7	-0.3	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.1	1.0	-5.4	1.0	
60.0	-4.4	-0.4	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.7	-3.7	1.0	-5.0	0.9	
61.0	-4.1	-0.4	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.8	-3.3	0.9	-4.6	0.9	
62.0	-3.7	-0.4	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.8	-2.9	0.9	-4.3	0.9	
63.0	-3.4	-0.3	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.8	-2.7	0.9	-4.1	0.9	
64.0	-3.2	-0.2	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.8	-2.4	0.9	-3.7	0.9	
65.0	-2.8	-0.3	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.8	-2.0	1.0	-3.4	1.0	
66.0	-2.4	-0.4	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.8	-1.7	1.0	-3.0	1.0	
67.0	-2.0	-0.4	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.8	-1.3	1.0	-2.6	1.0	
68.0	-1.6	-0.4	0.0	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.8	-0.8	1.1	-2.2	1.1	
69.0	-1.1	-0.5	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.8	-0.3	1.2	-1.9	1.2	
70.0	-0.7	-0.4	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.8	0.1	1.3	-1.5	1.3	
71.0	-0.2	-0.4	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.8	0.6	1.4	-1.2	1.4	
72.0	0.3	-0.4	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.7	1.0	1.5	-0.8	1.5	
73.0	0.7	-0.4	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.7	1.5	1.6	-0.7	1.6	
74.0	1.2	-0.3	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.7	1.9	1.8	-0.7	1.9	
75.0	1.6	-0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7	2.3	2.3	-0.7	2.3	
76.0	1.9	-0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7	2.5	2.7	-0.9	2.7	
77.0	2.0	0.3	0.0	-0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	2.7	2.8	-0.8	2.8	
78.0	2.0	0.6	0.0	-0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.0	3.1	3.0	0.1	3.1	
79.0	2.1	0.7	0.0	-0.1	0.0	-0.1	0.4	0.2	0.0	0.0	0.0	0.0	1.0	3.1	3.1	0.8	3.1	
80.0	2.1	0.7	0.0	0.0	0.0	-0.1	0.3	0.3	0.0	0.0	-0.1	0.1	1.0	3.2	3.2	1.5	3.2	
81.0	2.2	0.7	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.0	-0.1	0.1	1.0	3.3	3.3	1.7	3.3	
82.0	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	-0.1	0.1	1.1	3.7	3.7	1.9	3.7	
83.0	2.7	0.2	0.0	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	-0.2	0.1	1.5	4.3	4.3	1.9	4.3	
84.0	2.8	0.1	0.0	0.0	0.0	-0.1	-0.2	0.1	0.0	0.0	-0.2	0.1	2.0	4.9	4.9	2.0	4.9	
85.0	2.9	0.0	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	-0.3	0.1	2.3	5.4	5.4	2.0	5.4	
86.0	3.0	-0.1	0.0	0.1	0.0	0.0	-0.5	-0.1	0.0	0.0	-0.4	0.1	2.5	5.7	5.7	1.9	5.7	
87.0	3.3	-0.5	0.0	0.0	0.0	0.0	-0.6	-0.2	0.0	0.0	-0.4	0.0	2.6	6.0	6.0	1.8	6.0	
88.0	3.4	-0.6	0.0	0.0	0.0	0.0	-0.7	-0.4	0.0	0.0	-0.5	0.0	2.9	6.2	6.2	1.8	6.2	
89.0	3.3	-0.6	0.0	0.0	0.0	0.0	-0.7	-0.5	0.0	0.0	-0.5	0.0	3.0	6.3	6.3	1.7	6.3	
90.0	3.3	-0.5	0.0	0.0	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.5	0.0	3.1	6.4	6.4	1.6	6.4	
91.0	3.3	-0.6	0.0	0.1	0.0	0.0	-0.8	-0.7	0.0	0.0	-0.5	0.0	3.0	6.3	6.3	1.6	6.3	
92.0	3.3	-0.8	0.0	0.1	0.0	0.1	-0.8	-0.8	0.0	0.0	-0.6	0.0	2.8	6.2	6.2	1.6	6.2	
93.0	3.4	-1.0	0.0	0.1	0.0	0.1	-0.9	-0.7	0.0	0.0	-0.6	0.0	2.7	6.1	6.1	1.6	6.1	
94.0	3.5	-0.9	0.0	0.0	0.0	0.0	-0.9	-0.7	0.0	0.0	-0.6	0.0	2.7	6.0	6.0	1.7	6.0	
95.0	3.4	-0.8	0.0	0.0	0.0	0.0	-0.8	-0.7	0.0	0.0	-0.6	0.0	2.7	6.0	6.0	1.7	6.0	
96.0	3.3	-0.8	0.0	0.0	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.6	0.0	2.6	5.9	5.9	1.7	5.9	
97.0	3.3	-0.8	0.0	0.0	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.6	0.0	2.6	5.9	5.9	1.7	5.9	
98.0	3.3	-0.9	0.0	0.0	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.6	0.0	2.6	5.9	5.9	1.7	5.9	
99.0	3.3	-0.8	0.0	0.0	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.6	0.0	2.6	5.9	5.9	1.7	5.9	

PROPULSION

	TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NON-RSS	ALPHA	NEG
	50.0	-5.3	-0.5	0.0	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.7	-4.6	0.8	-6.1		
	51.0	-5.3	-0.4	0.0	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.7	-4.6	0.9	-6.2		
	52.0	-5.4	-0.4	0.0	0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.6	-4.7	0.9	-6.2		
	53.0	-5.4	-0.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2		
	54.0	-5.4	-0.4	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.2		
	55.0	-5.4	-0.3	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2		
	56.0	-5.3	-0.3	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.8	-6.2		
	57.0	-5.2	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.6	-4.6	0.9	-6.1		
	58.0	-4.7	0.0	0.0	0.0	0.0	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.6	-4.4	1.0	-6.0		
	59.0	-4.4	0.0	0.0	0.0	0.0	-0.1	-0.3	0.0	-0.1	0.0	0.0	0.0	0.6	-4.1	1.0	-5.8		
	60.0	-4.4	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.7	-3.7	1.0	-5.4		
	61.0	-3.7	-0.3	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.8	-3.3	0.9	-5.0		
	62.0	-3.4	-0.4	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.8	-2.9	0.9	-4.6		
	63.0	-3.2	-0.3	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.8	-2.7	0.9	-4.3		
	64.0	-2.8	-0.4	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.8	-2.4	0.9	-4.1		
	65.0	-2.4	-0.4	0.0	0.0	0.0	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.8	-2.0	1.0	-3.4		
	66.0	-2.4	-0.5	0.0	0.0	0.0	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.8	-1.7	1.0	-3.0		
	67.0	-1.6	-0.6	0.0	0.0	0.0	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.8	-1.3	1.0	-2.6		
	68.0	-1.1	-0.7	0.0	0.0	0.0	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.8	-0.8	1.1	-2.2		
	69.0	-0.7	-0.8	0.0	0.0	0.0	-0.1	-0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.1	1.2	-1.9		
	70.0	-0.2	-1.0	0.0	0.0	0.0	-0.1	-0.4	0.0	0.0	0.0	0.0	0.0	0.8	0.6	1.3	-1.5		
	71.0	0.3	-1.2	0.0	0.0	0.0	-0.1	-0.4	0.0	0.0	0.0	0.0	0.0	0.8	1.0	1.4	-1.2		
	72.0	0.7	-1.7	0.0	0.0	0.0	-0.1	-0.4	0.0	0.0	0.0	0.0	0.0	0.7	1.5	1.6	-0.8		
	73.0	1.2	-2.2	0.0	0.0	0.0	-0.1	-0.4	0.0	0.0	0.0	0.0	0.0	0.7	1.9	1.8	-0.7		
	74.0	1.6	-2.7	0.0	0.0	0.0	-0.1	-0.4	0.0	0.0	0.0	0.0	0.0	0.7	2.3	2.3	-0.9		
	75.0	1.9	-2.8	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.7	2.5	2.7	-0.8		
	76.0	2.0	-2.4	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.9	2.9	2.5	-0.4		
	77.0	2.1	-1.9	0.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	1.0	3.1	2.0	0.1		
	78.0	2.4	-0.4	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	1.0	3.1	1.3	0.8		
	79.0	2.1	-1.1	0.0	0.0	0.0	0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.9	3.2	0.8	1.5		
	80.0	2.4	-0.2	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	1.0	3.3	0.7	1.7		
	81.0	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.1	3.7	0.8	1.9		
	82.0	2.8	1.2	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.2	0.0	1.5	4.3	0.9	1.9		
	83.0	2.9	2.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.3	0.0	2.0	4.9	1.0	2.0		
	84.0	3.0	2.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	2.3	5.4	1.1	2.0		
	85.0	3.3	2.4	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.4	0.0	2.5	5.7	1.3	2.0		
	86.0	3.4	2.6	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.4	0.0	2.6	6.0	1.4	1.9		
	87.0	3.5	2.8	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.0	2.9	6.2	1.5	1.8		
	88.0	3.5	2.8	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.5	0.0	3.0	6.3	1.5	1.8		
	89.0	3.5	2.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.5	0.0	3.1	6.4	1.7	1.6		
	90.0	3.5	2.5	0.0	0.0	0.0	-0.1	0.8	0.0	0.0	0.0	0.5	0.0	3.0	6.3	1.7	1.6		
	91.0	3.4	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.6	0.0	2.8	6.2	1.8	1.6		
	92.0	3.3	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.6	0.0	2.7	6.2	1.8	1.6		
	93.0	3.4	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.0	2.7	6.1	1.7	1.7		
	94.0	3.4	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.0	2.7	6.0	1.7	1.7		
	95.0	3.3	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.0	2.7	6.0	1.7	1.7		
	96.0	3.3	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.6	0.0	2.6	5.9	1.7	1.7		
	97.0	3.3	2.4	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	2.6	5.9	1.6	1.7		
	98.0	3.3	2.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	2.6	5.9	1.6	1.7		
	99.0	3.3	2.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	2.6	5.9	1.6	1.7		

PROPULSION																	ALPHA		POS
TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS	POS		
100.0	3.3	-0.8	0.0	0.0	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.6	0.0	2.4	5.7	1.6	1.7			
101.0	3.3	-0.8	0.0	0.1	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.6	0.0	2.1	5.4	1.6	1.7			
102.0	3.2	-0.8	0.0	0.1	0.0	0.0	-0.8	-0.6	0.0	0.0	-0.6	0.0	1.8	5.1	1.6	1.7			
103.0	3.2	-0.7	0.1	0.1	0.0	0.1	-0.7	-0.6	0.0	0.0	-0.6	0.0	1.7	4.9	1.5	1.7			
104.0	3.1	-0.6	0.4	0.2	0.0	0.1	-0.7	-0.5	0.1	0.0	-0.6	0.0	1.7	4.8	1.4	1.7			
105.0	3.0	-0.5	0.6	0.2	0.0	0.2	-0.6	-0.5	0.1	0.0	-0.7	0.0	1.8	4.8	1.3	1.6			
106.0	2.8	-0.3	0.8	0.2	0.0	0.2	-0.6	-0.4	0.1	0.0	-0.7	0.0	2.1	4.9	1.3	1.5			
107.0	2.7	0.0	0.9	0.2	0.0	0.1	-0.6	-0.4	0.1	0.0	-0.8	0.0	2.4	5.1	1.3	1.4			
108.0	2.5	0.2	0.9	0.2	0.0	0.1	-0.6	-0.4	0.1	0.0	-0.9	0.0	2.5	5.0	1.3	1.2			
109.0	2.5	0.2	0.8	0.2	0.0	0.1	-0.6	-0.4	0.1	0.0	-1.0	0.0	2.4	4.9	1.4	1.1			
110.0	2.5	0.1	0.6	0.2	0.0	0.1	-0.6	-0.4	0.1	0.0	-1.0	0.0	2.1	4.6	1.4	1.1			
111.0	2.5	-0.1	0.4	0.2	0.0	0.2	-0.6	-0.4	0.1	0.0	-1.1	0.0	1.9	4.4	1.4	1.1			
112.0	2.4	0.0	0.2	0.3	0.0	0.3	-0.5	-0.3	0.1	0.0	-1.1	0.0	1.8	4.2	1.4	1.0			
113.0	2.2	0.5	0.1	0.4	0.0	0.4	-0.4	-0.3	0.1	0.0	-1.1	0.0	1.8	4.0	1.3	0.8			
114.0	1.9	1.0	0.0	0.5	0.0	0.5	-0.3	-0.2	0.2	0.0	-1.1	0.0	2.0	4.0	1.4	0.6			
115.0	1.7	1.5	0.0	0.5	0.0	0.5	-0.3	-0.2	0.2	0.0	-1.1	0.0	2.2	4.0	1.4	0.3			
116.0	1.5	1.7	-0.1	0.5	0.0	0.5	-0.2	-0.2	0.2	0.0	-1.2	0.0	2.4	3.9	1.6	0.0			
117.0	1.4	1.8	-0.1	0.5	0.0	0.5	-0.2	-0.1	0.2	0.0	-1.2	0.0	2.5	3.8	1.6	-0.3			
118.0	1.1	1.9	0.0	0.5	0.0	0.5	-0.2	-0.1	0.2	0.0	-1.2	0.0	2.5	3.6	1.6	-0.5			
119.0	0.8	2.0	0.0	0.5	0.0	0.5	-0.2	-0.1	0.2	0.0	-1.2	0.0	2.6	3.4	1.6	-0.8			
120.0	0.5	2.0	0.0	0.5	0.0	0.5	-0.2	-0.1	0.2	0.0	-1.2	0.0	2.6	3.2	1.6	-1.1			
121.0	0.3	2.1	0.0	0.5	0.0	0.5	-0.3	-0.1	0.2	0.0	-1.2	0.0	2.7	3.0	1.6	-1.3			
122.0	0.0	2.1	0.0	0.5	0.0	0.5	-0.3	-0.1	0.2	0.0	-1.2	0.0	4.6	4.6	1.6	-1.6			
123.0	-0.2	2.1	0.0	0.5	0.0	0.5	-0.2	-0.1	0.2	0.0	-1.2	0.0	9.4	9.2	1.6	-1.8			
124.0	-0.5	2.1	0.0	0.5	0.0	0.5	-0.2	-0.1	0.2	0.0	-1.1	0.0	9.5	9.0	1.6	-2.1			
125.0	0.7	0.7	-1.4	0.5	0.0	0.5	-0.2	-0.1	0.2	0.0	-1.1	0.0	8.2	8.8	2.1	-1.4			
126.0	5.2	-4.1	-4.7	0.1	0.0	0.0	-1.2	-0.5	0.4	0.0	-3.3	0.1	3.3	8.5	8.2	-3.0			
127.0	4.9	-4.1	0.1	0.1	0.0	0.0	-1.2	-0.5	0.3	0.0	0.2	0.1	3.8	8.7	4.6	0.3			
128.0	4.7	-4.1	0.1	0.1	0.0	0.0	-1.2	-0.5	0.3	0.0	0.2	0.1	3.8	8.5	4.6	0.1			
129.0	4.6	-4.2	0.0	0.1	0.0	0.0	-1.2	-0.5	0.3	0.0	0.2	0.1	3.7	8.3	4.7	-0.2			
130.0	4.4	0.0	0.1	0.1	0.0	0.0	-1.2	-0.5	0.3	0.0	0.2	0.1	3.7	8.1	2.1	2.3			
140.0	2.8	-0.1	0.0	0.1	0.0	0.0	-1.2	-0.4	0.3	0.0	0.2	0.1	3.1	5.9	2.1	0.7			
150.0	1.0	0.1	0.1	0.1	0.0	0.0	-1.0	-0.4	0.3	0.0	0.2	0.1	2.8	4.1	1.8	-0.8			
160.0	-0.5	0.2	0.1	0.1	0.0	0.0	-0.9	-0.4	0.3	0.0	0.2	0.1	2.8	2.3	1.6	-2.1			
170.0	-1.8	0.2	0.0	0.1	0.0	0.0	-0.8	-0.3	0.3	0.0	0.2	0.1	2.6	0.8	1.5	-3.3			
180.0	-2.9	0.3	0.0	0.1	0.0	0.1	-0.8	-0.3	0.3	0.0	0.1	0.1	2.3	-0.6	1.4	-4.3			
190.0	-3.9	0.3	0.0	0.1	0.0	0.1	-0.7	-0.3	0.3	0.0	0.1	0.1	2.1	-1.8	1.3	-5.9			
200.0	-4.7	0.3	0.0	0.1	0.0	0.1	-0.6	-0.2	0.3	0.0	0.1	0.0	2.0	-2.8	1.2	-6.5			
210.0	-5.4	0.3	0.0	0.1	0.0	0.1	-0.6	-0.2	0.3	0.0	0.1	0.0	1.8	-4.2	1.1	-6.9			
220.0	-5.8	0.4	0.0	0.1	0.0	0.1	-0.6	-0.2	0.3	0.0	0.1	0.0	1.6	-3.1	1.0	-7.2			
230.0	-6.2	0.4	0.0	0.1	0.0	0.1	-0.5	-0.2	0.3	0.0	0.1	0.0	1.3	-2.1	0.9	-7.4			
240.0	-6.4	0.4	0.0	0.1	0.0	0.1	-0.4	-0.2	0.3	0.0	0.1	0.0	1.2	-1.8	0.8	-7.4			
250.0	-6.6	0.5	0.0	0.1	0.0	0.1	-0.4	-0.2	0.3	0.0	0.1	0.0	1.1	-1.6	0.7	-7.2			
260.0	-6.6	0.5	0.0	0.1	0.0	0.1	-0.4	-0.2	0.3	0.0	0.1	0.0	0.9	-1.4	0.6	-7.0			
270.0	-6.5	0.5	0.0	0.1	0.0	0.1	-0.3	-0.1	0.3	0.0	0.1	0.0	0.8	-1.3	0.5	-6.7			
280.0	-6.4	0.5	0.0	0.1	0.0	0.1	-0.3	-0.1	0.3	0.0	0.1	0.0	0.7	-1.2	0.4	-6.4			
290.0	-6.1	0.5	0.0	0.1	0.0	0.1	-0.3	-0.1	0.3	0.0	0.1	0.0	0.7	-1.1	0.3	-5.9			
300.0	-5.8	0.5	0.0	0.1	0.0	0.1	-0.2	-0.1	0.3	0.0	0.1	0.0	0.7	-1.0	0.2	-5.4			
310.0	-5.4	0.5	0.0	0.1	0.0	0.1	-0.2	-0.1	0.3	0.0	0.1	0.0	0.7	-0.9	0.1	-5.4			
320.0	-5.0	0.5	0.0	0.1	0.0	0.1	-0.2	-0.1	0.3	-0.1	0.0	0.0	0.7	-0.8	0.0	-5.4			

PROPULSION															ALPHA		NEG
TIME	NON VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS	
100.0	3.3	2.1	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	2.4	5.7	1.6	1.7	
101.0	3.3	1.8	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	2.1	5.4	1.6	1.7	
102.0	3.2	1.5	0.0	-0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	1.8	5.1	1.6	1.7	
103.0	3.2	1.3	0.1	-0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.6	0.0	1.7	4.9	1.5	1.7	
104.0	3.1	1.2	0.4	-0.1	0.0	-0.1	0.6	0.0	-0.1	0.0	0.6	0.0	1.7	4.8	1.4	1.7	
105.0	3.0	1.3	0.6	-0.1	0.0	-0.1	0.6	0.0	-0.1	0.0	0.7	0.0	1.8	4.9	1.3	1.6	
106.0	2.8	1.5	1.0	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	0.7	0.0	2.1	4.9	1.3	1.5	
107.0	2.7	1.7	1.3	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	0.8	0.0	2.4	5.1	1.3	1.4	
108.0	2.5	1.7	1.4	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	0.9	0.0	2.5	5.0	1.3	1.2	
109.0	2.5	1.5	1.3	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	1.0	0.0	2.4	4.9	1.4	1.1	
110.0	2.5	1.1	1.2	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	1.0	0.0	2.1	4.6	1.4	1.1	
111.0	2.5	0.7	1.0	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	1.1	0.0	1.9	4.4	1.4	1.1	
112.0	2.4	0.5	0.9	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	1.1	0.0	1.8	4.2	1.4	1.0	
113.0	2.2	0.4	0.7	-0.1	0.0	-0.1	0.5	0.0	-0.1	0.0	1.1	0.0	1.8	4.0	1.3	0.8	
114.0	1.9	0.4	0.5	-0.2	0.0	-0.2	0.4	0.0	-0.2	0.0	1.1	0.0	2.0	4.0	1.4	0.6	
115.0	1.7	0.3	0.4	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.1	0.0	2.2	4.0	1.4	0.3	
116.0	1.5	0.2	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.1	0.0	2.4	3.9	1.6	0.0	
117.0	1.4	0.1	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.2	0.0	2.5	3.8	1.6	-0.3	
118.0	1.1	0.1	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.2	0.0	2.6	3.6	1.6	-0.5	
119.0	0.8	0.1	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.2	0.0	2.6	3.4	1.6	-0.8	
120.0	0.5	0.1	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.2	0.0	2.6	3.2	1.6	-1.1	
121.0	0.3	1.6	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.1	0.0	2.7	3.0	1.6	-1.3	
122.0	0.0	4.2	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.1	0.0	9.4	4.6	1.6	-1.6	
123.0	-0.2	9.3	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.1	0.0	9.5	9.2	1.6	-1.8	
124.0	-0.5	9.3	0.3	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.1	0.0	9.5	9.0	1.6	-2.1	
125.0	0.7	8.0	-1.1	-0.3	0.0	-0.3	0.2	0.0	-0.2	0.0	1.1	0.0	8.2	8.8	2.1	-1.4	
126.0	5.2	3.2	-4.3	0.0	0.0	0.1	-2.0	0.0	-0.3	0.0	-0.2	0.0	3.3	8.5	8.2	-3.0	
127.0	4.9	3.2	-0.1	0.0	0.0	0.1	1.1	0.0	-0.3	0.0	-0.2	0.0	3.8	8.7	4.6	0.3	
128.0	4.7	3.2	-0.2	0.0	0.0	0.1	1.1	0.0	-0.3	0.0	-0.2	0.0	3.8	8.5	4.6	0.1	
129.0	4.6	3.2	-0.1	0.0	0.0	0.1	1.1	0.0	-0.3	0.0	-0.2	0.0	3.7	8.3	4.7	-0.2	
130.0	4.4	3.1	-0.1	0.0	0.0	0.0	0.9	0.0	-0.3	0.0	-0.2	0.0	3.1	8.1	2.1	0.7	
130.0	2.8	2.7	-0.1	0.0	0.0	0.0	0.9	0.0	-0.3	0.0	-0.2	0.0	3.1	5.9	2.1	0.7	
150.0	1.0	2.6	-0.1	0.0	0.0	0.0	0.8	0.0	-0.3	0.0	-0.2	0.0	2.8	2.3	1.6	-0.8	
160.0	-0.5	2.4	-0.1	0.0	0.0	0.0	0.8	0.0	-0.3	0.0	-0.2	0.0	2.6	0.8	1.5	-2.1	
170.0	-1.8	2.2	-0.1	0.0	0.0	0.0	0.7	0.0	-0.3	0.0	-0.2	0.0	2.3	-0.6	1.4	-3.3	
180.0	-2.9	2.0	-0.1	0.0	0.0	0.0	0.6	0.0	-0.3	0.0	-0.1	0.0	2.1	-1.8	1.3	-4.3	
190.0	-3.9	1.8	-0.1	0.0	0.0	0.0	0.6	0.0	-0.3	0.0	-0.1	0.0	2.0	-2.8	1.2	-5.9	
200.0	-4.7	1.6	-0.1	0.0	0.0	0.0	0.6	0.0	-0.3	0.0	-0.1	0.0	1.8	-3.6	1.1	-6.5	
210.0	-5.4	1.3	0.0	0.0	0.0	0.0	0.5	0.0	-0.3	0.0	-0.1	0.0	1.6	-4.2	1.0	-7.2	
220.0	-5.8	1.3	-0.1	0.0	0.0	0.0	0.5	0.0	-0.3	0.0	-0.1	0.0	1.5	-5.1	0.9	-7.4	
230.0	-6.2	1.2	-0.1	0.0	0.0	0.0	0.4	0.0	-0.3	0.0	-0.1	0.0	1.3	-5.4	0.8	-7.4	
240.0	-6.4	1.0	-0.1	0.0	0.0	0.0	0.4	0.0	-0.3	0.0	-0.1	0.0	1.2	-5.6	0.7	-7.2	
250.0	-6.6	0.9	0.0	0.0	0.0	0.0	0.4	0.0	-0.3	0.0	-0.1	0.0	0.9	-5.1	0.6	-6.7	
260.0	-6.6	0.8	0.0	0.0	0.0	0.0	0.3	0.0	-0.3	0.0	-0.1	0.0	0.9	-5.4	0.6	-6.7	
270.0	-6.5	0.7	-0.1	0.0	0.0	0.0	0.3	0.0	-0.3	0.0	-0.1	0.0	0.8	-5.6	0.5	-6.9	
280.0	-6.4	0.6	0.0	0.0	0.0	0.0	0.3	0.0	-0.3	0.0	-0.1	0.0	0.8	-5.4	0.5	-6.9	
290.0	-6.1	0.4	0.0	0.0	0.0	0.0	0.2	0.0	-0.3	0.0	-0.1	0.0	0.7	-5.1	0.4	-7.2	
300.0	-5.8	0.3	0.0	0.0	0.0	0.0	0.2	0.0	-0.3	0.0	-0.1	0.0	0.7	-4.7	0.4	-7.4	
310.0	-5.4	0.2	0.0	0.0	0.0	0.0	0.2	0.0	-0.3	0.0	-0.1	0.0	0.7	-4.3	0.4	-7.6	
320.0	-5.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	-0.3	0.0	-0.1	0.0	0.7	-4.3	0.4	-7.6	

PROPULSION

ALPHA PDS

TIME	NDM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-4.5	0.5	0.0	0.1	0.0	0.1	-0.1	0.0	0.2	-0.1	0.0	0.0	0.7	-3.8	0.4	-4.9
340.0	-3.9	0.6	0.0	0.1	0.0	0.0	-0.1	0.0	0.2	-0.1	0.0	0.0	0.7	-3.3	0.4	-4.3
350.0	-3.3	0.6	0.0	0.0	0.0	0.0	-0.1	0.0	0.2	-0.1	0.0	0.0	0.7	-2.7	0.4	-3.7
360.0	-2.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	0.6	-2.1	0.4	-3.1
370.0	-2.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	0.6	-1.4	0.5	-2.5
380.0	-1.4	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.6	-0.7	0.5	-1.9
390.0	-0.7	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.6	0.0	0.6	-1.3
400.0	0.0	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.6	0.6	0.7	-0.7
410.0	0.7	0.6	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.0	0.0	0.0	0.7	1.4	0.8	-0.1
420.0	1.3	0.5	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.6	1.9	0.9	0.5
430.0	1.9	0.4	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.6	2.5	1.0	0.9
440.0	2.4	0.4	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.6	3.0	1.0	1.4
450.0	2.8	0.3	0.0	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.6	3.4	1.1	1.7
460.0	3.1	0.3	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.6	3.7	1.2	1.9
470.0	3.2	0.2	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.7	3.9	1.2	2.0
480.0	3.1	0.1	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.1	0.0	0.0	0.8	3.8	1.3	1.8

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
330.0	-4.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-0.3	0.1	0.0	0.0	0.7	-3.8	0.4	-4.9	*	*
340.0	-3.9	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	-0.2	0.1	0.0	0.0	0.7	-3.3	0.4	-4.3	*	*
350.0	-3.3	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.1	0.0	0.0	0.7	-2.7	0.4	-3.7	*	*
360.0	-2.7	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.1	0.0	0.0	0.6	-2.1	0.4	-3.1	*	*
370.0	-2.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	-1.4	0.5	-2.5	*	*
380.0	-1.4	-0.5	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.6	-0.7	0.5	-1.9	*	*
390.0	-0.7	-0.5	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.6	0.0	0.6	-1.3	*	*
400.0	0.0	-0.6	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*	*
410.0	0.7	-0.7	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.7	1.4	0.8	-0.1	*	*
420.0	1.3	-0.8	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.6	1.9	0.9	0.5	*	*
430.0	1.9	-0.9	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.6	2.5	1.0	0.9	*	*
440.0	2.4	-0.9	0.0	0.0	0.0	0.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.6	3.0	1.0	1.4	*	*
450.0	2.8	-1.0	0.0	0.0	0.0	0.0	-0.3	0.0	-0.1	0.0	0.0	0.0	0.6	3.4	1.1	1.7	*	*
460.0	3.1	-1.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.6	3.7	1.2	1.9	*	*
470.0	3.2	-1.1	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.7	3.9	1.2	2.0	*	*
480.0	3.1	-1.1	0.0	0.0	0.0	0.0	-0.3	0.0	0.1	-0.1	0.0	0.0	0.8	3.8	1.3	1.8	*	*

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA POS
0.0	-89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-89.5	0.0	-89.5	*
1.0	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.5	0.6	-1.5	*
2.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.4	2.7	*
3.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.8	0.5	3.6	*
4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.2	0.6	3.9	*
5.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.4	0.7	3.9	*
6.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.9	*
7.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.8	*
8.0	4.5	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.4	0.8	3.7	*
9.0	4.3	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.4	0.9	3.4	*
10.0	3.9	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.1	1.1	2.8	*
11.0	3.3	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.4	1.1	2.2	*
12.0	2.7	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.7	1.1	1.5	*
13.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.0	1.1	1.0	*
14.0	1.8	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.5	1.1	0.7	*
15.0	1.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	1.1	0.4	*
16.0	1.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	1.2	0.0	*
17.0	0.5	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.6	1.2	-0.7	*
18.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.2	-1.4	*
19.0	-0.9	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3	0.8	-1.7	*
20.0	-1.6	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.4	0.8	-2.4	*
21.0	-2.2	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	-0.2	0.8	-2.9	*
22.0	-2.7	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.4	-1.3	0.7	-3.4	*
23.0	-3.3	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	-2.2	0.7	-4.0	*
24.0	-3.8	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-2.7	0.6	-4.5	*
25.0	-4.1	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-3.3	0.7	-4.8	*
26.0	-4.3	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.7	0.8	-5.1	*
27.0	-4.4	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-3.8	0.8	-5.2	*
28.0	-4.4	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-3.8	0.8	-5.3	*
29.0	-4.4	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.8	0.8	-5.3	*
30.0	-4.4	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.7	0.8	-5.2	*
31.0	-4.4	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2	*
32.0	-4.4	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-3.6	0.9	-5.2	*
33.0	-4.4	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.8	-3.5	0.9	-5.3	*
34.0	-4.4	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.8	-3.5	0.9	-5.3	*
35.0	-4.7	0.0	-0.5	-0.1	0.0	0.0	0.0	0.0	0.1	0.9	-3.6	0.9	-5.4	*
36.0	-4.8	0.0	-0.5	-0.1	0.0	0.0	0.0	0.0	0.1	0.9	-3.7	0.8	-5.4	*
37.0	-4.8	0.0	-0.5	-0.1	0.0	0.0	0.0	0.0	0.1	0.9	-3.9	0.7	-5.5	*
38.0	-4.9	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-4.1	0.8	-5.6	*
39.0	-5.0	0.1	-0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-4.2	0.8	-5.7	*
40.0	-5.1	0.1	-0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.8	-4.3	0.8	-5.9	*
41.0	-5.2	0.1	-0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.8	-4.4	0.9	-6.0	*
42.0	-5.3	0.1	-0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.8	-4.5	0.9	-6.1	*
43.0	-5.3	0.1	-0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.8	-4.7	0.8	-6.2	*
44.0	-5.4	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-4.8	0.8	-6.3	*
45.0	-5.4	0.0	-0.6	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.4	*
46.0	-5.5	0.0	-0.6	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.7	-6.4	*
47.0	-5.5	0.0	-0.6	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.7	-6.3	*
48.0	-5.5	0.0	-0.6	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.8	0.8	-6.2	*
49.0	-5.4	0.0	-0.6	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.7	0.8	-6.2	*

AERO/ENVIRONMENT														ALPHA NEG													
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS														
0.0	-89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-89.5	0.0	-89.5														
1.0	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.5	0.6	-1.5														
2.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.4	2.7														
3.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.8	0.5	3.6														
4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.2	0.6	3.9														
5.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.4	0.7	3.9														
6.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.9														
7.0	4.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.8														
8.0	4.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.5	0.8	3.7														
9.0	4.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.4	0.9	3.4														
10.0	3.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.1	1.1	2.8														
11.0	3.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.4	1.1	2.2														
12.0	2.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.7	1.1	1.5														
13.0	2.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.0	1.1	1.0														
14.0	1.8	0.0	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.7	2.5	1.1	0.7														
15.0	1.6	0.0	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.8	2.3	1.1	0.4														
16.0	1.2	0.0	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.8	2.0	1.2	0.0														
17.0	0.5	0.0	0.2	0.0	-0.1	0.0	0.0	0.0	0.0	1.0	1.6	1.2	-0.7														
18.0	-0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.0	1.2	-1.4														
19.0	-0.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3	0.8	-1.7														
20.0	-1.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.4	0.8	-2.4														
21.0	-2.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	-0.2	0.8	-2.9														
22.0	-2.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.4	-1.3	0.7	-3.4														
23.0	-3.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	-2.2	0.7	-4.0														
24.0	-4.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-2.7	0.6	-4.5														
25.0	-4.1	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-3.3	0.7	-4.8														
26.0	-4.3	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.7	0.8	-5.1														
27.0	-4.4	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-3.8	0.8	-5.2														
28.0	-4.4	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-3.8	0.8	-5.3														
29.0	-4.4	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.8	0.8	-5.3														
30.0	-4.4	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.7	0.8	-5.2														
31.0	-4.4	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2														
32.0	-4.4	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2														
33.0	-4.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.8	-3.5	0.9	-5.2														
34.0	-4.4	0.0	0.5	0.1	0.0	0.0	0.0	0.0	-0.1	0.8	-3.5	0.9	-5.3														
35.0	-4.5	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.9	-3.6	0.9	-5.4														
36.0	-4.7	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	-0.1	1.0	-3.7	0.8	-5.4														
37.0	-4.8	0.0	0.4	0.0	-0.1	0.0	0.0	0.0	-0.1	0.9	-3.9	0.7	-5.5														
38.0	-4.8	0.0	0.4	0.0	-0.1	0.0	0.0	0.0	-0.1	0.7	-4.1	0.8	-5.6														
39.0	-4.9	0.0	0.4	0.1	0.0	0.0	0.0	0.0	-0.1	0.7	-4.2	0.8	-5.7														
40.0	-5.0	-0.1	0.5	0.1	0.0	0.0	0.0	0.0	-0.1	0.8	-4.2	0.9	-5.9														
41.0	-5.1	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.8	-4.3	0.8	-6.0														
42.0	-5.2	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.8	-4.4	0.9	-6.1														
43.0	-5.3	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.8	-4.5	0.8	-6.2														
44.0	-5.5	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.8	-4.7	0.8	-6.3														
45.0	-5.4	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.8	0.8	-6.3														
46.0	-5.6	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.4														
47.0	-5.6	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.4														
48.0	-5.5	-0.1	0.5	0.1	0.0	0.0	0.1	0.0	0.1	0.7	-4.8	0.7	-6.3														
49.0	-5.4	0.0	0.6	0.1	0.0	0.0	-0.1	0.0	0.1	0.7	-4.7	0.8	-6.2														

AERO/ENVIRONMENT														ALPHA POS									
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS										
50.0	-5.3	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.6	0.8	-6.1										
51.0	-5.3	0.1	-0.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.6	0.9	-6.2										
52.0	-5.4	0.1	-0.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.9	-6.2										
53.0	-5.4	0.1	-0.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2										
54.0	-5.4	0.0	-0.7	-0.1	0.0	0.0	0.0	0.0	-0.1	0.6	-4.9	0.8	-6.2										
55.0	-5.4	0.0	-0.7	-0.1	0.0	0.0	0.0	0.0	-0.1	0.6	-4.8	0.8	-6.2										
56.0	-5.3	0.0	-0.7	-0.1	0.0	0.0	0.0	0.0	-0.1	0.6	-4.7	0.8	-6.2										
57.0	-5.2	0.0	-0.8	-0.1	0.0	0.0	0.0	0.0	-0.1	0.6	-4.6	0.9	-6.1										
58.0	-5.1	-0.1	-0.9	-0.1	0.0	0.0	0.0	0.0	-0.2	0.6	-4.4	1.0	-5.8										
59.0	-4.7	-0.2	-0.9	-0.1	0.0	0.0	0.0	0.0	-0.2	0.6	-4.1	1.0	-5.4										
60.0	-4.4	-0.1	-0.9	-0.1	0.0	0.0	0.0	0.0	-0.2	0.7	-3.7	1.0	-5.0										
61.0	-4.1	-0.1	-0.8	-0.1	0.0	0.0	0.0	0.0	-0.2	0.8	-3.3	0.9	-4.6										
62.0	-3.7	-0.1	-0.8	-0.1	0.0	0.0	0.0	0.0	-0.1	0.8	-2.9	0.9	-4.3										
63.0	-3.4	0.0	-0.8	-0.1	0.0	0.1	0.0	0.0	-0.1	0.8	-2.7	0.9	-4.1										
64.0	-3.2	0.0	-0.8	-0.1	0.0	0.1	0.0	0.0	-0.1	0.8	-2.4	0.9	-3.7										
65.0	-2.8	-0.1	-0.8	-0.1	0.0	0.1	0.0	0.0	0.0	0.8	-2.0	0.9	-3.4										
66.0	-2.4	-0.1	-0.8	-0.1	0.0	0.0	0.0	0.0	0.0	0.8	-1.7	1.0	-3.0										
67.0	-2.0	-0.1	-0.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.8	-1.3	1.0	-2.6										
68.0	-1.6	-0.1	-0.7	-0.1	0.0	0.1	0.0	0.0	0.0	0.8	-0.8	1.0	-2.2										
69.0	-1.1	-0.1	-0.7	-0.1	0.0	0.1	0.0	0.0	0.0	0.8	-0.3	1.1	-1.9										
70.0	-0.7	-0.1	-0.7	-0.1	0.0	0.1	0.0	0.0	0.0	0.8	0.6	1.2	-1.5										
71.0	-0.2	-0.1	-0.7	-0.1	0.0	0.1	0.0	0.0	0.0	0.8	1.0	1.4	-0.8										
72.0	0.3	-0.1	-0.6	-0.1	0.0	0.1	0.0	0.0	0.0	0.7	1.5	1.6	-0.7										
73.0	0.7	0.0	-0.6	-0.1	0.0	0.1	0.0	0.0	0.0	0.7	1.9	1.8	-0.7										
74.0	1.2	0.0	-0.5	-0.1	0.1	0.1	0.0	0.0	-0.1	0.7	2.3	2.7	-0.7										
75.0	1.6	0.0	-0.5	-0.1	0.1	0.1	0.0	0.0	0.0	0.7	2.5	2.7	-0.9										
76.0	1.9	0.1	-0.4	-0.1	0.1	0.1	0.0	0.0	0.0	0.7	2.7	2.8	-0.8										
77.0	2.0	0.2	-0.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.9	2.9	2.5	-0.4										
78.0	2.0	0.2	-0.4	-0.1	0.0	0.0	0.0	0.0	0.0	1.0	3.1	2.0	0.1										
79.0	2.1	0.2	-0.3	-0.1	0.0	0.0	0.1	0.0	0.0	1.0	3.1	1.7	0.8										
80.0	2.1	0.1	-0.3	0.0	-0.1	-0.1	0.1	0.0	0.0	1.0	3.2	0.8	1.5										
81.0	2.2	0.0	-0.3	0.0	-0.2	-0.2	0.1	0.0	0.0	1.0	3.3	0.7	1.7										
82.0	2.4	-0.1	-0.2	0.1	-0.2	-0.3	0.2	0.0	0.0	0.9	3.3	0.8	1.9										
83.0	2.7	-0.1	-0.2	0.2	-0.2	-0.3	0.2	0.0	0.0	1.1	4.3	0.9	1.9										
84.0	2.8	-0.1	0.0	0.3	-0.3	-0.3	0.2	0.0	0.0	1.5	4.9	1.0	1.9										
85.0	2.9	-0.1	0.1	0.3	-0.3	-0.3	0.2	0.0	0.0	2.0	5.4	1.0	2.0										
86.0	3.0	-0.2	0.2	0.4	-0.3	-0.3	0.1	0.0	0.0	2.3	5.7	1.3	2.0										
87.0	3.4	-0.2	0.3	0.5	-0.2	-0.2	0.1	0.0	0.0	2.5	6.0	1.4	1.9										
88.0	3.3	-0.2	0.4	0.6	-0.2	-0.2	0.1	0.0	0.0	2.6	6.2	1.5	1.8										
89.0	3.3	-0.2	0.5	0.7	-0.2	-0.2	0.1	0.0	0.0	2.9	6.3	1.5	1.8										
90.0	3.3	-0.2	0.5	0.7	-0.1	-0.1	0.0	0.0	0.0	3.0	6.4	1.7	1.6										
91.0	3.3	-0.3	0.5	0.6	-0.1	0.0	0.0	0.0	0.0	3.0	6.3	1.7	1.6										
92.0	3.4	-0.3	0.5	0.6	-0.1	0.0	0.0	0.0	0.0	2.8	6.2	1.8	1.6										
93.0	3.5	-0.2	0.5	0.6	-0.1	0.0	0.0	0.0	0.0	2.7	6.2	1.8	1.6										
94.0	3.4	-0.2	0.4	0.6	-0.1	-0.1	0.0	0.0	0.0	2.7	6.1	1.7	1.7										
95.0	3.4	-0.2	0.4	0.6	-0.1	-0.1	0.0	0.0	0.0	2.7	6.0	1.7	1.7										
96.0	3.4	-0.2	0.4	0.5	-0.1	-0.1	0.0	0.0	0.0	2.7	6.0	1.7	1.7										
97.0	3.3	-0.2	0.4	0.5	-0.1	-0.1	0.0	0.0	0.0	2.6	6.0	1.7	1.7										
98.0	3.3	-0.2	0.4	0.5	-0.1	-0.1	0.0	0.0	0.0	2.6	5.9	1.6	1.7										
99.0	3.3	-0.2	0.4	0.5	-0.1	-0.1	0.0	0.0	0.0	2.6	5.9	1.6	1.7										

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
50.0	-5.3	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.7	-4.6	0.8	-6.1	*	*
51.0	-5.3	-0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.6	0.9	-6.2	*	*
52.0	-5.4	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.9	-6.2	*	*
53.0	-5.4	-0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.6	-4.8	0.8	-6.2	*	*
54.0	-5.4	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.6	-4.9	0.8	-6.2	*	*
55.0	-5.4	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.6	-4.8	0.8	-6.2	*	*
56.0	-5.3	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.8	-6.2	*	*
57.0	-5.2	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.6	0.9	-6.1	*	*
58.0	-5.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.4	1.0	-6.0	*	*
59.0	-4.7	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.6	-4.1	1.0	-5.8	*	*
60.0	-4.4	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-3.7	1.0	-5.4	*	*
61.0	-4.1	0.1	0.7	0.1	0.0	0.0	0.0	0.0	0.2	0.8	-3.3	0.9	-5.0	*	*
62.0	-3.7	0.1	0.7	0.1	0.0	0.0	0.0	0.0	0.2	0.8	-2.9	0.9	-4.6	*	*
63.0	-3.4	0.1	0.7	0.1	0.0	0.0	0.0	0.0	0.1	0.8	-2.7	0.9	-4.3	*	*
64.0	-3.2	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.8	-2.4	0.9	-4.1	*	*
65.0	-2.8	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.8	-2.0	0.9	-3.7	*	*
66.0	-2.4	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.8	-1.7	1.0	-3.4	*	*
67.0	-2.0	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-1.3	1.0	-3.0	*	*
68.0	-1.6	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-0.8	1.1	-2.6	*	*
69.0	-1.1	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.8	0.1	1.2	-2.2	*	*
70.0	-0.7	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.1	0.8	0.6	1.3	-1.9	*	*
71.0	-0.2	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.8	1.0	1.4	-1.5	*	*
72.0	0.3	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.7	1.5	1.6	-1.2	*	*
73.0	0.7	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.7	1.9	1.8	-0.8	*	*
74.0	1.2	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.7	2.3	2.3	-0.7	*	*
75.0	1.6	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.7	2.7	2.8	-0.9	*	*
76.0	1.9	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.7	2.9	2.8	-0.8	*	*
77.0	2.0	-0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.9	3.1	2.0	-0.4	*	*
78.0	2.0	-0.1	0.3	0.1	0.1	0.1	0.0	0.0	0.0	1.0	3.1	1.3	0.8	*	*
79.0	2.1	-0.1	0.3	0.1	0.1	0.1	0.0	0.0	0.0	1.0	3.2	0.8	1.5	*	*
80.0	2.2	0.0	0.2	0.0	0.2	0.3	0.0	0.0	0.0	0.9	3.3	0.7	1.7	*	*
81.0	2.4	0.0	0.1	-0.1	0.3	0.3	0.0	0.0	0.0	1.1	3.7	0.8	1.9	*	*
82.0	2.7	0.0	0.0	-0.2	0.3	0.3	0.0	0.0	0.0	1.5	4.3	0.9	1.9	*	*
83.0	2.8	0.0	0.0	-0.3	0.3	0.3	0.0	0.0	0.0	2.0	4.9	1.0	1.9	*	*
84.0	2.9	0.1	-0.1	-0.4	0.3	0.3	0.0	0.0	0.0	2.3	5.4	1.1	2.0	*	*
85.0	3.0	0.1	-0.2	-0.5	0.3	0.3	0.0	0.0	0.0	2.5	5.7	1.3	2.0	*	*
86.0	3.3	0.1	-0.3	-0.6	0.2	0.3	0.0	0.0	-0.1	2.6	6.0	1.4	1.9	*	*
87.0	3.4	0.1	-0.4	-0.7	0.2	0.2	0.0	0.0	0.0	2.9	6.2	1.5	1.8	*	*
88.0	3.5	0.1	-0.5	-0.7	0.1	0.2	0.0	0.0	0.0	3.0	6.3	1.5	1.8	*	*
89.0	3.5	0.1	-0.5	-0.7	0.0	0.0	0.0	0.0	-0.1	3.1	6.4	1.7	1.6	*	*
90.0	3.5	0.2	-0.5	-0.7	0.0	0.0	0.0	0.0	-0.1	3.0	6.3	1.7	1.6	*	*
91.0	3.5	0.2	-0.5	-0.7	0.0	0.0	0.0	0.0	-0.1	2.8	6.2	1.8	1.6	*	*
92.0	3.4	0.2	-0.5	-0.7	0.0	0.0	0.0	0.0	-0.1	2.7	6.2	1.8	1.6	*	*
93.0	3.4	0.1	-0.4	-0.7	0.0	0.1	0.0	0.0	-0.1	2.7	6.1	1.7	1.6	*	*
94.0	3.4	0.1	-0.4	-0.6	0.0	0.1	0.0	0.0	-0.1	2.7	6.0	1.7	1.7	*	*
95.0	3.4	0.1	-0.4	-0.6	0.1	0.1	0.0	0.0	-0.1	2.7	6.0	1.7	1.7	*	*
96.0	3.3	0.1	-0.4	-0.6	0.1	0.1	0.0	0.0	-0.1	2.6	6.0	1.7	1.7	*	*
97.0	3.3	0.1	-0.4	-0.6	0.1	0.1	0.0	0.0	-0.1	2.6	6.0	1.7	1.7	*	*
98.0	3.3	0.1	-0.4	-0.6	0.1	0.1	0.0	0.0	-0.1	2.6	5.9	1.6	1.7	*	*
99.0	3.3	0.1	-0.4	-0.6	0.1	0.1	0.0	0.0	-0.1	2.6	5.9	1.6	1.7	*	*

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA POS
100.0	3.3	-0.2	0.4	0.5	-0.1	0.0	0.0	0.0	0.0	2.4	5.7	1.6	1.7	*
101.0	3.3	-0.2	0.4	0.5	-0.1	0.0	0.0	0.0	0.0	2.1	5.4	1.6	1.7	*
102.0	3.2	-0.2	0.3	0.5	-0.1	0.0	0.0	0.0	0.0	1.8	5.1	1.6	1.7	*
103.0	3.2	-0.2	0.3	0.4	-0.1	0.0	0.0	0.0	0.1	1.7	4.9	1.5	1.7	*
104.0	3.1	-0.3	0.3	0.4	-0.1	0.0	0.0	0.0	0.1	1.7	4.8	1.4	1.7	*
105.0	3.0	-0.4	0.3	0.4	-0.1	0.0	0.0	0.0	0.1	1.8	4.8	1.3	1.6	*
106.0	2.8	-0.4	0.3	0.4	-0.1	0.0	0.0	0.0	0.1	2.1	4.9	1.3	1.5	*
107.0	2.7	-0.4	0.3	0.4	-0.1	0.0	0.0	0.0	0.1	2.4	5.1	1.3	1.4	*
108.0	2.5	-0.3	0.3	0.4	-0.1	0.0	0.0	0.0	0.1	2.5	5.0	1.3	1.2	*
109.0	2.5	-0.3	0.4	0.4	-0.1	0.0	0.0	0.0	0.1	2.4	4.9	1.4	1.1	*
110.0	2.5	-0.3	0.4	0.4	-0.1	0.0	0.0	0.0	0.1	2.1	4.6	1.4	1.1	*
111.0	2.5	-0.3	0.4	0.4	-0.1	0.0	0.0	0.0	0.1	1.9	4.4	1.4	1.1	*
112.0	2.2	-0.3	0.4	0.3	-0.1	0.0	0.0	0.0	0.1	1.8	4.0	1.3	0.8	*
113.0	1.9	-0.3	0.3	0.3	0.0	0.0	0.0	-0.1	0.1	2.0	4.0	1.4	0.6	*
114.0	1.7	-0.6	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	2.2	4.0	1.4	0.3	*
115.0	1.5	-0.8	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	2.4	3.9	1.6	0.0	*
116.0	1.4	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	2.5	3.8	1.6	-0.3	*
117.0	1.4	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	2.5	3.6	1.6	-0.3	*
118.0	1.1	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	2.6	3.4	1.6	-0.8	*
119.0	0.8	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	2.6	3.2	1.6	-1.1	*
120.0	0.5	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	2.7	3.0	1.6	-1.3	*
121.0	0.3	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	4.6	4.6	1.6	-1.6	*
122.0	0.0	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	9.4	9.2	1.6	-1.8	*
123.0	-0.2	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	9.5	9.0	1.6	-2.1	*
124.0	-0.5	-0.9	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	8.2	8.8	2.1	-1.4	*
125.0	0.7	-0.5	2.0	0.7	-0.2	0.0	0.0	0.0	0.0	3.3	8.5	8.2	-3.0	*
126.0	5.2	-0.5	2.0	0.7	-0.2	0.0	0.0	0.0	0.0	3.8	8.7	4.6	0.3	*
127.0	4.9	-0.5	0.7	0.7	-0.2	0.0	0.0	0.0	0.0	3.8	8.5	4.6	0.1	*
128.0	4.6	-0.5	0.7	0.7	-0.2	0.0	0.0	0.0	0.0	3.7	8.1	4.7	-0.2	*
129.0	4.4	-0.5	0.7	0.7	-0.2	0.0	0.0	0.0	0.0	3.1	5.9	2.1	2.3	*
130.0	2.8	-0.5	0.6	0.6	-0.2	0.0	0.0	0.0	0.0	2.8	4.1	1.8	-0.8	*
131.0	1.0	-0.4	0.6	0.5	-0.2	0.0	0.0	0.0	0.0	2.6	0.8	1.5	-2.1	*
132.0	-0.5	-0.4	0.6	0.5	-0.2	0.0	0.0	0.0	0.0	2.3	-0.6	1.4	-4.3	*
133.0	-1.8	-0.3	0.5	0.5	-0.1	0.0	0.0	0.0	0.0	2.1	-1.8	1.3	-5.2	*
134.0	-3.9	-0.3	0.4	0.4	-0.1	0.0	0.0	0.0	0.0	1.8	-3.6	1.2	-6.5	*
135.0	-4.7	-0.3	0.4	0.4	-0.1	0.0	0.0	0.0	0.0	1.6	-4.2	1.1	-6.9	*
136.0	-5.8	-0.3	0.3	0.3	-0.1	0.0	0.0	0.0	0.0	1.5	-4.7	1.0	-7.2	*
137.0	-6.4	-0.3	0.3	0.3	-0.1	0.0	0.0	0.0	0.0	1.2	-5.4	0.9	-7.4	*
138.0	-6.6	-0.2	0.2	0.2	-0.1	0.0	0.0	0.0	0.0	1.1	-5.6	0.8	-7.4	*
139.0	-6.4	-0.2	0.2	0.2	-0.1	0.0	0.0	0.0	0.0	0.9	-5.6	0.7	-7.2	*
140.0	-6.1	-0.2	0.2	0.2	-0.1	0.0	0.0	0.0	0.0	0.8	-5.4	0.6	-6.7	*
141.0	-5.8	-0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	-5.1	0.5	-6.4	*
142.0	-5.4	-0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.7	0.5	-5.9	*
143.0	-5.0	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.3	0.4	-5.4	*

AERO/ENVIRONMENT

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
100.0	3.3	0.1	-0.4	-0.6	0.1	0.1	0.0	0.0	-0.1	2.4	5.7	1.6	1.7	*	*
101.0	3.3	0.1	-0.3	-0.5	0.1	0.0	0.0	0.0	-0.1	2.1	5.4	1.6	1.7	*	*
102.0	3.2	0.2	-0.3	-0.5	0.1	0.0	0.0	0.0	-0.1	1.8	5.1	1.6	1.7	*	*
103.0	3.1	0.3	-0.3	-0.5	0.1	0.0	0.0	0.0	-0.1	1.7	4.9	1.5	1.7	*	*
104.0	3.1	0.3	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	1.7	4.8	1.4	1.7	*	*
105.0	3.0	0.3	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	1.8	4.8	1.3	1.6	*	*
106.0	2.8	0.3	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	2.1	4.9	1.3	1.5	*	*
107.0	2.7	0.3	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	2.4	5.1	1.3	1.4	*	*
108.0	2.5	0.3	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	2.5	5.0	1.3	1.2	*	*
109.0	2.5	0.3	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	2.4	4.9	1.4	1.1	*	*
110.0	2.5	0.4	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	1.9	4.6	1.4	1.1	*	*
111.0	2.5	0.4	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	1.8	4.2	1.4	1.0	*	*
112.0	2.4	0.6	-0.3	-0.4	0.1	0.0	0.0	0.0	-0.1	1.8	4.0	1.3	0.8	*	*
113.0	2.2	0.8	-0.2	-0.3	0.0	0.0	0.0	0.1	-0.1	2.0	4.0	1.4	0.6	*	*
114.0	1.9	0.9	-0.1	-0.2	0.0	0.0	0.1	0.1	-0.1	2.2	3.9	1.6	0.3	*	*
115.0	1.7	0.9	-0.1	-0.2	0.0	0.0	0.1	0.1	-0.1	2.4	3.8	1.6	0.0	*	*
116.0	1.5	0.9	-0.1	-0.2	0.0	0.0	0.0	0.1	-0.1	2.5	3.6	1.6	-0.3	*	*
117.0	1.4	0.8	-0.1	-0.2	0.1	0.0	0.0	0.1	-0.1	2.6	3.4	1.6	-0.5	*	*
118.0	1.1	0.8	-0.1	-0.3	0.1	0.0	0.0	0.1	-0.1	2.6	3.2	1.6	-0.8	*	*
120.0	0.5	0.8	-0.1	-0.3	0.1	0.0	0.0	0.1	-0.1	2.7	3.0	1.6	-1.1	*	*
121.0	0.3	0.8	-0.1	-0.3	0.1	0.0	0.0	0.1	-0.1	2.7	2.7	1.6	-1.3	*	*
122.0	0.0	0.8	-0.1	-0.3	0.1	0.0	0.0	0.1	-0.1	2.6	2.4	1.6	-1.6	*	*
123.0	-0.2	0.8	-0.1	-0.2	0.1	0.0	0.0	0.1	-0.1	2.6	2.0	1.6	-1.8	*	*
124.0	-0.5	0.8	-0.1	-0.2	0.1	0.0	0.0	0.1	-0.1	2.6	1.6	1.6	-2.1	*	*
125.0	0.7	0.8	-0.1	-0.2	0.1	0.0	0.0	0.1	-0.1	2.5	1.6	2.1	-1.4	*	*
126.0	5.2	0.3	-0.7	-0.8	0.2	0.0	0.0	0.0	-0.1	3.3	8.8	8.2	-3.0	*	*
127.0	4.9	0.2	-0.7	-0.8	0.1	0.0	0.0	0.0	-0.1	3.8	8.7	4.6	0.3	*	*
128.0	4.7	0.2	-0.7	-0.8	0.1	0.0	0.0	0.0	-0.1	3.8	8.5	4.6	0.1	*	*
129.0	4.6	0.2	-0.7	-0.8	0.1	0.0	0.0	0.0	-0.1	3.7	8.3	4.7	-0.2	*	*
130.0	2.8	0.1	-0.7	-0.8	0.1	0.0	0.0	0.0	-0.1	3.1	5.9	2.1	0.7	*	*
130.0	1.0	0.2	-0.6	-0.7	0.1	0.0	0.0	0.0	0.0	3.1	4.1	1.8	-0.8	*	*
140.0	-0.5	0.2	-0.5	-0.6	0.1	0.0	0.0	0.0	-0.1	2.8	2.3	1.6	-2.1	*	*
160.0	-1.8	0.2	-0.5	-0.6	0.1	0.0	0.0	0.0	0.0	2.6	0.8	1.5	-3.3	*	*
170.0	-2.9	0.2	-0.4	-0.5	0.1	0.0	0.0	0.0	0.0	2.3	-0.6	1.4	-4.3	*	*
180.0	-3.9	0.2	-0.4	-0.5	0.1	0.0	0.0	0.0	0.0	2.1	-1.8	1.3	-5.2	*	*
200.0	-4.7	0.2	-0.4	-0.4	0.1	0.0	0.0	0.0	0.0	2.0	-3.8	1.2	-5.9	*	*
210.0	-5.8	0.2	-0.3	-0.4	0.1	0.0	0.0	0.0	0.0	1.8	-4.2	1.1	-6.5	*	*
220.0	-6.2	0.2	-0.3	-0.3	0.1	0.0	0.0	0.0	0.0	1.5	-4.7	1.0	-7.2	*	*
230.0	-6.4	0.2	-0.3	-0.3	0.1	0.0	0.0	0.0	0.0	1.3	-5.1	0.9	-7.4	*	*
240.0	-6.6	0.2	-0.2	-0.3	0.1	0.0	0.0	0.0	0.0	1.1	-5.6	0.8	-7.4	*	*
250.0	-6.5	0.2	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.9	-5.6	0.7	-7.2	*	*
260.0	-6.4	0.1	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.8	-5.6	0.6	-7.0	*	*
270.0	-6.1	0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.7	-5.4	0.5	-6.7	*	*
280.0	-5.8	0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.7	-5.1	0.5	-6.4	*	*
300.0	-5.4	0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.7	0.5	-5.9	*	*
310.0	-5.0	0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	-4.3	0.4	-5.4	*	*
320.0															

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	POS
330.0	-4.5	-0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	-3.8	0.4	-4.9	*
340.0	-3.9	-0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	-3.3	0.4	-4.3	*
350.0	-3.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-2.7	0.4	-3.7	*
360.0	-2.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.1	0.4	-3.1	*
370.0	-2.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.4	0.5	-2.5	*
380.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.7	0.5	-1.9	*
390.0	-0.7	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	-1.3	*
400.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.7	-0.7	*
410.0	0.7	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.8	-0.1	*
420.0	1.3	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	1.9	0.9	0.5	*
430.0	1.9	0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	2.5	1.0	0.9	*
440.0	2.4	0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.6	3.0	1.0	1.4	*
450.0	2.8	0.1	-0.2	-0.2	0.0	0.1	0.0	0.0	0.0	0.6	3.4	1.1	1.7	*
460.0	3.1	0.1	-0.2	-0.2	0.0	0.1	0.0	0.0	0.0	0.6	3.7	1.2	1.9	*
470.0	3.2	0.2	-0.2	-0.2	0.1	0.1	0.0	0.0	0.0	0.7	3.9	1.3	2.0	*
480.0	3.1	0.2	-0.2	-0.2	0.1	0.1	0.0	0.0	0.0	0.8	3.8	1.3	1.8	*

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AERO/ENVIRONMENT

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
330.0	-4.5	0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	-3.8	0.4	-4.9	*	*
340.0	-3.9	0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.7	-3.3	0.4	-4.3	*	*
350.0	-3.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-2.7	0.4	-3.7	*	*
360.0	-2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.1	0.4	-3.1	*	*
370.0	-2.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.4	0.5	-2.5	*	*
380.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.7	0.5	-1.9	*	*
390.0	-0.7	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	-1.3	*	*
400.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*	*
410.0	0.7	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	1.4	0.8	-0.1	*	*
420.0	1.3	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	1.9	0.9	0.5	*	*
430.0	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	2.5	1.0	0.9	*	*
440.0	2.4	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.6	3.0	1.0	1.4	*	*
450.0	2.8	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.6	3.4	1.1	1.7	*	*
460.0	3.1	0.0	0.2	0.2	-0.1	0.0	0.0	0.0	0.0	0.6	3.7	1.2	1.9	*	*
470.0	3.2	-0.1	0.2	0.2	-0.1	0.0	0.0	0.0	0.0	0.7	3.9	1.2	2.0	*	*
480.0	3.1	-0.1	0.2	0.3	-0.1	0.0	0.0	0.0	0.0	0.8	3.8	1.3	1.8	*	*

ALPHA POS

1.

MASS PROPERTIES														ALPHA NEG	
TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	
0.0	-89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-89.5	0.0	-89.5	*
1.0	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.5	0.6	-1.5	*
2.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.4	2.7	*
3.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.8	0.5	3.6	*
4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.2	0.6	3.9	*
5.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.4	0.7	3.9	*
6.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.9	*
7.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.8	*
8.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.5	0.8	3.7	*
9.0	4.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.0	5.4	0.9	3.4	*
10.0	3.9	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	5.1	1.1	2.8	*
11.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	4.4	1.1	2.2	*
12.0	2.7	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	1.0	3.7	1.1	1.5	*
13.0	2.1	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	3.0	1.1	1.0	*
14.0	1.8	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.7	2.5	1.1	0.7	*
15.0	1.6	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	2.3	1.1	0.4	*
16.0	1.2	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	2.0	1.2	0.0	*
17.0	0.5	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.0	1.6	1.2	-0.7	*
18.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.1	1.0	1.2	-1.4	*
19.0	-0.9	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	0.3	0.8	-1.7	*
20.0	-1.6	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	2.0	0.4	0.8	-2.4	*
21.0	-2.2	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	2.0	-0.2	0.8	-2.9	*
22.0	-2.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.4	-1.3	0.7	-3.4	*
23.0	-3.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.2	-2.2	0.7	-4.0	*
24.0	-3.8	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.1	-2.7	0.6	-4.5	*
25.0	-4.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	-3.3	0.7	-4.8	*
26.0	-4.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-3.7	0.8	-5.1	*
27.0	-4.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-3.8	0.8	-5.2	*
28.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-3.8	0.8	-5.3	*
29.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.8	0.8	-5.3	*
30.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.7	0.8	-5.2	*
31.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2	*
32.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-3.5	0.9	-5.2	*
33.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-3.5	0.9	-5.3	*
34.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-3.6	0.9	-5.4	*
35.0	-4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-3.7	0.8	-5.5	*
36.0	-4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-3.9	0.7	-5.5	*
37.0	-4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.1	0.8	-5.6	*
38.0	-4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.2	0.8	-5.7	*
39.0	-4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-4.2	0.9	-5.9	*
40.0	-5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-4.3	0.8	-6.0	*
41.0	-5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-4.4	0.9	-6.1	*
42.0	-5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-4.5	0.8	-6.2	*
43.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-4.7	0.8	-6.3	*
44.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.8	0.8	-6.3	*
45.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.4	*
46.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.7	-6.3	*
47.0	-5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.8	0.7	-6.2	*
48.0	-5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.7	0.8	-6.2	*
49.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.7	0.8	-6.2	*

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA POS
50.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.6	0.8	-6.1	*
51.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.6	0.9	-6.2	*
52.0	-5.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.9	-6.2	*
53.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	*
54.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.2	*
55.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	*
56.0	-5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.8	-6.2	*
57.0	-5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.6	0.9	-6.1	*
58.0	-4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.4	1.0	-6.0	*
59.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-3.7	1.0	-5.8	*
61.0	-4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.3	1.0	-5.4	*
62.0	-3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-2.9	0.9	-5.0	*
63.0	-3.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-2.7	0.9	-4.6	*
64.0	-3.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-2.4	0.9	-4.3	*
65.0	-2.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-2.0	0.9	-3.7	*
66.0	-2.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-1.7	1.0	-3.4	*
67.0	-2.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-1.3	1.0	-3.0	*
68.0	-1.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-0.8	1.0	-2.6	*
69.0	-1.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	-0.3	1.1	-2.2	*
70.0	-0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.1	1.2	-1.9	*
71.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.6	1.3	-1.5	*
72.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	1.0	1.4	-1.2	*
73.0	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	1.5	1.6	-0.8	*
74.0	1.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	1.9	1.8	-0.7	*
75.0	1.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	2.3	2.3	-0.7	*
76.0	1.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	2.7	2.7	-0.9	*
77.0	2.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	2.7	2.8	-0.8	*
78.0	2.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.9	2.9	2.5	-0.4	*
79.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	2.0	0.1	*
80.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	1.3	0.8	*
81.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.2	0.8	1.5	*
82.0	2.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	3.3	0.7	1.7	*
83.0	2.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.1	3.7	0.8	1.9	*
84.0	2.8	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	4.3	0.9	1.9	*
85.0	2.9	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.0	5.4	1.0	1.9	*
86.0	3.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.3	5.7	1.1	2.0	*
87.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.5	5.7	1.3	2.0	*
88.0	3.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.6	6.0	1.4	1.9	*
89.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.9	6.3	1.5	1.8	*
90.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	3.0	6.4	1.7	1.6	*
91.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	3.0	6.3	1.7	1.6	*
92.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	2.8	6.2	1.8	1.6	*
93.0	3.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.7	6.1	1.7	1.6	*
94.0	3.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.7	6.0	1.7	1.7	*
95.0	3.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.7	6.0	1.7	1.7	*
96.0	3.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.7	6.0	1.7	1.7	*
97.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.6	6.0	1.7	1.7	*
98.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.6	5.9	1.6	1.7	*
99.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.6	5.9	1.6	1.7	*

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	4RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
50.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.6	0.8	-6.1	*	*
51.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.6	0.9	-6.2	*	*
52.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.9	-6.2	*	*
53.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	*	*
54.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.2	*	*
55.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	*	*
56.0	-5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.7	0.8	-6.2	*	*
57.0	-5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.6	0.9	-6.1	*	*
58.0	-4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.4	1.0	-6.0	*	*
59.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.1	1.0	-5.8	*	*
60.0	-4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-3.7	1.0	-5.4	*	*
61.0	-4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-3.3	0.9	-5.0	*	*
62.0	-3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-2.9	0.9	-4.6	*	*
63.0	-3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-2.7	0.9	-4.3	*	*
64.0	-3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-2.4	0.9	-4.1	*	*
65.0	-2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-2.0	0.9	-3.7	*	*
66.0	-2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.7	1.0	-3.4	*	*
67.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.3	1.0	-3.0	*	*
68.0	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.8	1.0	-2.6	*	*
69.0	-1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.3	1.1	-2.2	*	*
70.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1	1.2	-1.9	*	*
71.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.6	1.3	-1.5	*	*
72.0	0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	1.0	1.4	-1.2	*	*
73.0	0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	1.5	1.6	-0.8	*	*
74.0	1.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	1.9	1.8	-0.7	*	*
75.0	1.6	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	2.3	2.3	-0.7	*	*
76.0	1.9	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	2.5	2.7	-0.9	*	*
77.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.7	2.8	-0.8	*	*
78.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.9	2.5	-0.4	*	*
79.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	2.0	0.1	*	*
80.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	1.3	0.8	*	*
81.0	2.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	3.2	0.8	1.5	*	*
82.0	2.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.9	3.3	0.7	1.7	*	*
83.0	2.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.1	3.7	0.8	1.9	*	*
84.0	2.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	4.3	0.9	1.9	*	*
85.0	2.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.0	4.9	1.0	1.9	*	*
86.0	3.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.3	5.4	1.1	2.0	*	*
87.0	3.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.5	5.7	1.3	2.0	*	*
88.0	3.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.6	6.0	1.4	1.9	*	*
89.0	3.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.9	6.2	1.5	1.8	*	*
90.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.4	1.5	1.8	*	*
91.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.1	6.4	1.7	1.6	*	*
92.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.0	6.3	1.7	1.6	*	*
93.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.8	6.2	1.8	1.6	*	*
94.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.7	6.2	1.8	1.6	*	*
95.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.7	6.1	1.7	1.6	*	*
96.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.7	6.0	1.7	1.7	*	*
97.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.7	6.0	1.7	1.7	*	*
98.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.6	5.9	1.7	1.7	*	*
99.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.6	5.9	1.6	1.7	*	*

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	POS
100.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	2.4	5.7	1.6	1.7	*	*
101.0	3.3	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	2.1	5.4	1.6	1.7	*	*
102.0	3.2	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	1.8	5.1	1.6	1.7	*	*
103.0	3.2	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	1.7	4.9	1.5	1.7	*	*
104.0	3.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	1.7	4.8	1.4	1.7	*	*
105.0	3.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	1.8	4.8	1.3	1.6	*	*
106.0	2.8	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	2.1	4.9	1.3	1.5	*	*
107.0	2.7	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	2.4	5.1	1.3	1.4	*	*
108.0	2.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.5	5.0	1.3	1.2	*	*
109.0	2.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.4	4.9	1.4	1.1	*	*
110.0	2.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.1	4.6	1.4	1.1	*	*
111.0	2.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.9	4.4	1.4	1.1	*	*
112.0	2.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.8	4.2	1.4	1.0	*	*
113.0	2.2	-0.1	0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.8	4.0	1.3	0.8	*	*
114.0	1.9	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	1.4	0.6	*	*
115.0	1.7	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.0	1.4	0.3	*	*
116.0	1.5	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.9	1.6	0.0	*	*
117.0	1.4	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.8	1.6	-0.3	*	*
118.0	1.1	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.6	1.6	-0.5	*	*
119.0	0.8	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.4	1.6	-0.8	*	*
120.0	0.5	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.2	1.6	-1.1	*	*
121.0	0.3	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.0	1.6	-1.3	*	*
122.0	0.0	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	1.6	-1.6	*	*
123.0	-0.2	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.2	1.6	-1.8	*	*
124.0	-0.5	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.0	1.6	-2.1	*	*
125.0	0.7	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.8	2.1	-1.4	*	*
126.0	5.2	-0.2	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.3	8.3	8.2	-3.0	*	*
127.0	4.9	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.8	8.7	4.6	0.3	*	*
128.0	4.7	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.8	8.3	4.6	0.1	*	*
129.0	4.4	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.7	8.1	2.1	-2.3	*	*
130.0	2.8	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.1	5.9	2.1	0.7	*	*
140.0	1.0	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	3.1	4.1	1.8	-0.8	*	*
150.0	-0.5	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.8	2.3	1.6	-2.1	*	*
160.0	-1.8	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.6	0.8	1.5	-3.3	*	*
170.0	-2.9	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.3	-0.6	1.4	-4.3	*	*
180.0	-3.9	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.1	-1.8	1.3	-5.2	*	*
190.0	-4.7	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.0	-2.8	1.2	-5.9	*	*
200.0	-5.4	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.8	-3.6	1.1	-6.5	*	*
210.0	-5.8	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	-4.2	1.1	-6.9	*	*
220.0	-6.2	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	-4.7	1.0	-7.2	*	*
230.0	-6.4	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.3	-5.1	0.9	-7.4	*	*
240.0	-6.6	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.2	-5.4	0.8	-7.4	*	*
250.0	-6.6	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.1	-5.6	0.7	-7.2	*	*
260.0	-6.5	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	-5.6	0.6	-6.7	*	*
270.0	-6.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	-5.4	0.6	-6.4	*	*
280.0	-6.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-5.4	0.5	-5.9	*	*
290.0	-5.8	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-4.7	0.5	-5.4	*	*
300.0	-5.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-4.3	0.4	-5.4	*	*
310.0	-5.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-4.3	0.4	-5.4	*	*
320.0																

MASS PROPERTIES

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
100.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.4	5.7	1.6	1.7	*	*
101.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	2.1	5.4	1.6	1.7	*	*
102.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.1	1.6	1.7	*	*
103.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.7	4.9	1.5	1.7	*	*
104.0	3.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.8	1.4	1.7	*	*
105.0	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.8	1.3	1.6	*	*
106.0	2.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.9	1.3	1.5	*	*
107.0	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	5.1	1.3	1.4	*	*
108.0	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	1.3	1.2	*	*
109.0	2.5	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.4	4.9	1.4	1.1	*	*
110.0	2.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.1	4.6	1.4	1.1	*	*
111.0	2.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.9	4.4	1.4	1.1	*	*
112.0	2.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	4.2	1.4	1.0	*	*
113.0	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.0	1.3	0.8	*	*
114.0	1.9	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	1.4	0.6	*	*
115.0	1.7	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.9	1.4	0.3	*	*
116.0	1.5	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.8	1.6	0.0	*	*
117.0	1.4	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.6	1.6	-0.3	*	*
118.0	1.1	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.4	1.6	-0.5	*	*
119.0	0.8	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.2	1.6	-0.8	*	*
120.0	0.5	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.0	1.6	-1.1	*	*
121.0	0.3	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	1.6	-1.6	*	*
122.0	0.0	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.2	1.6	-1.8	*	*
123.0	-0.2	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.0	2.1	-2.1	*	*
124.0	-0.5	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.8	8.2	-3.0	*	*
125.0	0.7	0.2	-0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.3	8.5	8.7	-3.0	*	*
126.0	5.2	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.8	8.7	4.6	0.3	*	*
127.0	4.9	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.8	8.5	4.6	0.1	*	*
128.0	4.7	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.7	8.3	4.7	-0.2	*	*
129.0	4.6	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.7	8.1	2.1	2.3	*	*
130.0	4.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.1	5.9	2.1	0.7	*	*
140.0	2.8	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.1	4.1	1.8	-0.8	*	*
150.0	1.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.8	2.3	1.6	-2.1	*	*
160.0	-0.5	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.6	0.8	1.5	-3.3	*	*
170.0	-1.8	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.3	-0.6	1.4	-4.3	*	*
180.0	-2.9	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.1	-1.8	1.3	-5.2	*	*
190.0	-4.7	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	-2.8	1.2	-5.9	*	*
200.0	-5.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	-3.6	1.1	-6.5	*	*
210.0	-5.8	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.6	-4.2	1.1	-6.9	*	*
220.0	-6.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	-4.7	1.0	-7.2	*	*
230.0	-6.4	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	-5.1	0.9	-7.4	*	*
240.0	-6.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	-5.4	0.8	-7.4	*	*
250.0	-6.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-5.6	0.8	-7.4	*	*
260.0	-6.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-5.6	0.7	-7.2	*	*
270.0	-6.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-5.4	0.6	-6.7	*	*
280.0	-6.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-5.4	0.5	-6.4	*	*
290.0	-5.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-5.1	0.5	-5.9	*	*
300.0	-5.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-4.7	0.4	-5.4	*	*
310.0	-5.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-4.3	0.4	-5.4	*	*
320.0	-5.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-4.3	0.4	-5.4	*	*

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	POS
330.0	-4.5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-3.8	0.4	-4.9	*	*
340.0	-3.9	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-3.3	0.4	-4.3	*	*
350.0	-3.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	-2.7	0.4	-3.7	*	*
360.0	-2.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.6	-2.1	0.4	-3.1	*	*
370.0	-2.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.6	-1.4	0.5	-2.5	*	*
380.0	-1.4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.6	-0.7	0.5	-1.9	*	*
390.0	-0.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.6	0.0	0.6	-1.3	*	*
400.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.6	0.6	0.7	-0.7	*	*
410.0	0.7	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.7	1.4	0.8	-0.1	*	*
420.0	1.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.2	0.6	1.9	0.9	0.5	*	*
430.0	1.9	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.2	0.6	2.5	1.0	0.9	*	*
440.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.2	0.6	3.0	1.0	1.4	*	*
450.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.2	0.6	3.4	1.1	1.7	*	*
460.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.2	0.6	3.7	1.2	1.9	*	*
470.0	3.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	-0.1	0.2	0.7	3.9	1.2	2.0	*	*
480.0	3.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	-0.1	0.3	0.8	3.8	1.3	1.8	*	*

MASS PROPERTIES

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
330.0	-4.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-3.8	0.4	-4.9	*	*
340.0	-3.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-3.3	0.4	-4.3	*	*
350.0	-3.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.7	-2.7	0.4	-3.7	*	*
360.0	-2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.6	-2.1	0.4	-3.1	*	*
370.0	-2.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.6	-1.4	0.5	-2.5	*	*
380.0	-1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.6	-0.7	0.5	-1.9	*	*
390.0	-0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.6	0.0	0.6	-1.3	*	*
400.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.7	1.4	0.7	-0.7	*	*
410.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	0.7	1.9	0.8	-0.1	*	*
420.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2	0.6	2.5	0.9	0.5	*	*
430.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2	0.6	3.0	1.0	0.9	*	*
440.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.2	0.6	3.4	1.1	1.7	*	*
450.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	-0.2	0.6	3.7	1.2	1.9	*	*
460.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	-0.2	0.7	3.9	1.2	2.0	*	*
470.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	-0.2	0.7	3.8	1.3	1.8	*	*
480.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	-0.3	0.8				*	*

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA POS
0.0	-89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-89.5	0.0	-89.5	*
1.0	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.5	0.6	-1.5	*
2.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.4	2.7	*
3.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.8	0.5	3.6	*
4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	5.2	0.6	3.9	*
5.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.4	0.7	3.9	*
6.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.9	*
7.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.8	*
8.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.5	0.8	3.7	*
9.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.4	0.9	3.4	*
10.0	3.9	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.2	5.1	1.1	2.8	*
11.0	3.3	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	4.4	1.1	2.2	*
12.0	2.7	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.0	3.7	1.1	1.5	*
13.0	2.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	3.0	1.1	1.0	*
14.0	1.8	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	2.5	1.1	0.7	*
15.0	1.6	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	2.3	1.1	0.4	*
16.0	1.2	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	2.0	1.2	0.0	*
17.0	0.5	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.0	1.6	1.2	0.0	*
18.0	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.1	1.0	1.2	-0.7	*
19.0	-0.9	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	0.3	0.8	-1.4	*
20.0	-1.6	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	2.0	0.4	0.8	-2.4	*
21.0	-2.2	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.4	-0.2	0.7	-2.9	*
22.0	-2.7	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	-1.3	0.7	-3.4	*
23.0	-3.3	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.1	-2.7	0.6	-4.5	*
24.0	-3.8	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.9	-3.3	0.7	-4.8	*
25.0	-4.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	-3.7	0.8	-5.1	*
26.0	-4.3	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-3.8	0.8	-5.2	*
27.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-3.8	0.8	-5.3	*
28.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-3.7	0.8	-5.2	*
29.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2	*
30.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-3.5	0.9	-5.2	*
31.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-3.5	0.9	-5.3	*
32.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	-3.6	0.8	-5.4	*
33.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.0	-3.7	0.8	-5.4	*
34.0	-4.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	-3.9	0.7	-5.5	*
35.0	-4.5	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.1	0.8	-5.6	*
36.0	-4.7	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.2	0.8	-5.7	*
37.0	-4.8	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-4.3	0.8	-5.9	*
38.0	-4.8	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-4.4	0.9	-6.0	*
39.0	-4.9	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-4.5	0.9	-6.2	*
40.0	-5.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-4.7	0.8	-6.1	*
41.0	-5.1	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-4.7	0.8	-6.2	*
42.0	-5.2	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-4.8	0.8	-6.3	*
43.0	-5.3	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.9	0.7	-6.4	*
44.0	-5.5	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.9	0.7	-6.5	*
45.0	-5.6	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.8	0.8	-6.3	*
46.0	-5.6	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.9	0.8	-6.4	*
47.0	-5.5	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.9	0.7	-6.5	*
48.0	-5.5	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.8	0.8	-6.2	*
49.0	-5.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.7	0.8	-6.2	*

GN/C														ALPHA NEG													
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS														
0.0	-89.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-89.5	0.0	-89.5														
1.0	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.5	0.6	-1.5														
2.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	0.4	2.7														
3.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.8	0.5	3.6														
4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	5.2	0.6	3.9														
5.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.4	0.7	3.9														
6.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.9														
7.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	0.7	3.8														
8.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.5	0.8	3.7														
9.0	4.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	5.4	0.9	3.4														
10.0	3.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2	5.1	1.1	2.8														
11.0	3.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.2	4.4	1.1	2.2														
12.0	2.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.0	3.7	1.1	1.5														
13.0	2.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	3.0	1.1	1.0														
14.0	1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	2.5	1.1	0.7														
15.0	1.6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	2.5	1.1	0.4														
16.0	1.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	2.0	1.2	0.0														
17.0	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.0	1.6	1.2	-0.7														
18.0	-0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.1	1.0	1.2	-1.4														
19.0	-0.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.2	0.5	0.8	-1.7														
20.0	-1.6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.0	0.4	0.8	-2.4														
21.0	-2.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.0	-0.2	0.8	-2.9														
22.0	-2.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.4	-1.3	0.7	-3.4														
23.0	-3.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.2	-2.2	0.7	-4.0														
24.0	-3.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.1	-2.7	0.6	-4.5														
25.0	-4.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.9	-3.3	0.7	-4.8														
26.0	-4.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-3.7	0.8	-5.1														
27.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-3.8	0.8	-5.2														
28.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-3.8	0.8	-5.3														
29.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-3.7	0.8	-5.3														
30.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2														
31.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2														
32.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-3.6	0.8	-5.2														
33.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-3.5	0.9	-5.2														
34.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-3.5	0.9	-5.3														
35.0	-4.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.9	-3.6	0.9	-5.4														
36.0	-4.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	-3.7	0.8	-5.4														
37.0	-4.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.9	-3.9	0.7	-5.5														
38.0	-4.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-4.1	0.8	-5.6														
39.0	-4.9	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-4.2	0.9	-5.7														
40.0	-5.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-4.3	0.9	-5.9														
41.0	-5.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-4.4	0.9	-6.0														
42.0	-5.2	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-4.5	0.9	-6.1														
43.0	-5.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-4.7	0.8	-6.2														
44.0	-5.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-4.7	0.8	-6.3														
45.0	-5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-4.8	0.8	-6.4														
46.0	-5.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.4														
47.0	-5.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.7	-6.3														
48.0	-5.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-4.8	0.7	-6.2														
49.0	-5.4	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-4.7	0.8	-6.2														

GN/C

ALPHA PDS

TIME	NON VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NON-RSS	ALPHA PDS
50.0	-5.3	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.6	0.8	-6.1	***
51.0	-5.3	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-4.6	0.9	-6.2	***
52.0	-5.4	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.7	0.9	-6.2	***
53.0	-5.4	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	***
54.0	-5.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.9	0.8	-6.2	***
55.0	-5.4	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2	***
56.0	-5.3	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.7	0.8	-6.2	***
57.0	-5.2	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-4.6	0.9	-6.1	***
58.0	-5.1	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	-4.4	1.0	-6.0	***
59.0	-4.7	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	-4.1	1.0	-5.8	***
60.0	-4.4	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-3.7	1.0	-5.4	***
61.0	-4.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-3.3	0.9	-5.0	***
62.0	-3.7	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-2.9	0.9	-4.6	***
63.0	-3.4	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-2.7	0.9	-4.3	***
64.0	-3.2	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	-2.4	0.9	-4.1	***
65.0	-2.8	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	-2.0	0.9	-3.7	***
66.0	-2.4	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	-1.7	1.0	-3.4	***
67.0	-2.0	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	-1.3	1.0	-3.0	***
68.0	-1.6	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	-0.8	1.0	-2.6	***
69.0	-1.1	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	-0.3	1.1	-2.2	***
70.0	-0.7	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	0.1	1.2	-1.9	***
71.0	-0.2	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	0.6	1.3	-1.5	***
72.0	0.3	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	1.0	1.4	-1.2	***
73.0	0.7	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	1.5	1.6	-0.8	***
74.0	1.2	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	1.9	1.8	-0.7	***
75.0	1.6	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	2.3	2.3	-0.9	***
76.0	1.9	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	2.5	2.7	-0.8	***
77.0	2.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	2.7	2.8	-0.4	***
78.0	2.1	0.0	0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.9	2.9	2.5	0.1	***
79.0	2.1	0.0	0.2	0.0	0.0	-0.2	0.0	0.0	0.0	1.0	3.1	2.0	0.8	***
80.0	2.1	0.0	0.4	0.0	0.0	-0.2	0.0	0.0	0.0	1.0	3.1	1.3	0.8	***
81.0	2.2	0.0	0.5	0.0	0.0	-0.2	0.0	0.0	0.0	1.0	3.2	0.8	1.5	***
82.0	2.4	0.0	0.6	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	3.3	0.7	1.7	***
83.0	2.7	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	1.1	3.7	0.8	1.9	***
84.0	2.8	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	1.5	4.3	0.9	1.9	***
85.0	2.9	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	2.0	4.9	1.0	1.9	***
86.0	3.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.4	1.1	2.0	***
87.0	3.3	0.0	0.5	0.0	0.0	0.1	0.0	0.0	0.0	2.5	5.7	1.3	2.0	***
88.0	3.4	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0	2.6	6.0	1.4	1.9	***
89.0	3.5	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	2.9	6.2	1.5	1.8	***
90.0	3.5	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	3.0	6.3	1.5	1.8	***
91.0	3.5	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	3.0	6.3	1.7	1.6	***
92.0	3.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	3.0	6.3	1.7	1.6	***
93.0	3.4	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.8	6.2	1.8	1.6	***
94.0	3.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.7	6.2	1.8	1.6	***
95.0	3.4	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.7	6.1	1.7	1.6	***
96.0	3.4	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.7	6.0	1.7	1.7	***
97.0	3.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.7	6.0	1.7	1.7	***
98.0	3.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	2.6	6.0	1.7	1.7	***
99.0	3.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.6	5.9	1.6	1.7	***

GN/C										ALPHA NEG									
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS						
50.0	-5.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-4.6	0.8	-6.1						
51.0	-5.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-4.6	0.9	-6.2						
52.0	-5.4	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-4.7	0.9	-6.2						
53.0	-5.4	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2						
54.0	-5.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.9	0.8	-6.2						
55.0	-5.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-4.8	0.8	-6.2						
56.0	-5.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-4.7	0.8	-6.2						
57.0	-5.2	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-4.6	0.9	-6.1						
58.0	-4.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-4.4	1.0	-6.0						
59.0	-4.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-4.1	1.0	-5.8						
60.0	-4.4	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-3.7	1.0	-5.4						
61.0	-4.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.8	-3.3	0.9	-5.0						
62.0	-3.7	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-2.9	0.9	-4.6						
63.0	-3.4	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-2.7	0.9	-4.3						
64.0	-3.2	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-2.4	0.9	-4.1						
65.0	-2.8	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-2.0	0.9	-3.7						
66.0	-2.4	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-1.7	1.0	-3.4						
67.0	-2.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-1.3	1.0	-3.0						
68.0	-1.6	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-0.8	1.0	-2.6						
69.0	-1.1	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-0.3	1.1	-2.2						
70.0	-0.7	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	0.1	1.2	-1.9						
71.0	-0.2	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	0.6	1.3	-1.5						
72.0	0.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.8	1.0	1.4	-1.2						
73.0	0.7	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.7	1.5	1.6	-0.8						
74.0	1.2	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.7	1.9	1.8	-0.7						
75.0	1.6	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.7	2.3	2.3	-0.7						
76.0	1.9	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.7	2.5	2.7	-0.9						
77.0	2.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.7	2.7	2.8	-0.8						
78.0	2.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.9	2.9	2.5	-0.4						
79.0	2.1	0.0	-0.2	0.0	0.0	0.2	0.0	0.0	0.0	1.0	3.1	2.0	0.1						
80.0	2.1	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.0	3.1	1.3	0.8						
81.0	2.2	0.0	-0.5	0.0	0.0	0.2	0.0	0.0	0.0	1.0	3.2	0.8	1.5						
82.0	2.4	0.0	-0.6	0.0	0.0	0.1	0.0	0.0	0.0	0.9	3.3	0.7	1.7						
83.0	2.7	0.0	-0.6	0.0	0.0	0.1	0.0	-0.1	0.0	1.1	3.7	0.8	1.9						
84.0	2.8	0.0	-0.6	0.0	0.0	0.0	0.0	-0.1	0.0	1.5	4.3	0.9	1.9						
85.0	2.9	0.0	-0.6	0.0	0.0	0.0	0.0	-0.1	0.0	2.0	4.9	1.0	1.9						
86.0	3.0	0.0	-0.6	0.0	0.0	-0.1	0.0	-0.1	0.0	2.3	5.4	1.1	2.0						
87.0	3.3	0.0	-0.5	0.0	0.0	-0.1	0.0	-0.1	0.0	2.5	5.7	1.3	2.0						
88.0	3.4	0.0	-0.4	0.0	0.0	-0.2	0.0	0.0	0.0	2.6	6.0	1.4	1.9						
89.0	3.3	0.0	-0.3	0.0	0.0	-0.2	0.0	0.0	0.0	2.9	6.2	1.5	1.8						
90.0	3.3	0.0	-0.2	0.0	0.0	-0.2	0.0	0.0	0.0	3.0	6.3	1.5	1.8						
91.0	3.3	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	3.1	6.4	1.7	1.6						
92.0	3.3	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	3.0	6.3	1.7	1.6						
93.0	3.4	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	2.8	6.2	1.8	1.6						
94.0	3.5	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	2.7	6.1	1.7	1.6						
95.0	3.4	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	2.7	6.0	1.7	1.7						
96.0	3.4	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.7	6.0	1.7	1.7						
97.0	3.3	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.7	6.0	1.7	1.7						
98.0	3.3	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.6	5.9	1.6	1.7						
99.0	3.3	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.6	5.9	1.6	1.7						

GN/C													ALPHA	POS
TIME	NOM	VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	3.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.4	5.7	1.6	1.7
101.0	3.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.1	5.4	1.6	1.7
102.0	3.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.8	5.1	1.6	1.7
103.0	3.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.7	4.9	1.5	1.7
104.0	3.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.7	4.8	1.4	1.7
105.0	3.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	4.8	1.3	1.6
106.0	2.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.1	4.9	1.3	1.5
107.0	2.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.4	5.1	1.3	1.4
108.0	2.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.5	5.0	1.3	1.2
109.0	2.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.4	4.9	1.4	1.1
110.0	2.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.1	4.6	1.4	1.1
111.0	2.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.9	4.4	1.4	1.1
112.0	2.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	4.2	1.4	1.0
113.0	1.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	4.0	1.3	0.8
114.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	1.4	0.6
115.0	1.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.2	4.0	1.4	0.3
116.0	1.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.4	3.9	1.6	0.0
118.0	1.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.5	3.8	1.6	-0.3
119.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.6	1.6	-0.5
120.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.4	1.6	-0.8
121.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.2	1.6	-1.1
122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.0	1.6	-1.3
123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	1.6	-1.6
124.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.2	1.6	-1.8
125.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.0	1.6	-2.1
126.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.8	2.1	-1.4
127.0	4.9	0.0	0.0	0.0	0.0	0.0	-2.2	0.0	0.0	0.0	3.3	8.5	8.2	-3.0
128.0	4.7	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	3.8	8.7	4.6	0.3
129.0	4.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	3.8	8.5	4.6	0.1
130.0	4.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	3.7	8.3	4.7	-0.2
140.0	2.8	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	3.1	5.9	2.1	0.7
150.0	1.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	3.1	4.1	1.8	-0.8
160.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	2.8	2.3	1.5	-2.1
170.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	2.6	0.8	1.5	-3.3
180.0	-2.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	2.3	-0.6	1.4	-4.3
190.0	-3.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	2.1	-1.8	1.3	-5.2
200.0	-4.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	2.0	-2.8	1.2	-5.9
210.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.8	-3.6	1.1	-6.5
220.0	-5.8	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.6	-4.2	1.1	-6.9
230.0	-6.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.5	-5.1	1.0	-7.2
240.0	-6.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.3	-5.4	0.9	-7.4
250.0	-6.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.2	-5.6	0.8	-7.4
260.0	-6.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.1	-5.6	0.7	-7.2
270.0	-6.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.9	-5.6	0.6	-6.7
280.0	-6.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	-5.4	0.5	-6.4
290.0	-6.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	-5.1	0.5	-5.9
300.0	-5.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	-4.7	0.5	-5.4
310.0	-5.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-4.3	0.4	-5.4
320.0	-5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-4.1	0.4	-5.4

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA NEG
100.0	3.3	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.4	5.7	1.6	1.7	*
101.0	3.3	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.1	5.4	1.6	1.7	*
102.0	3.2	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	1.8	5.1	1.6	1.7	*
103.0	3.2	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	1.7	4.9	1.5	1.7	*
104.0	3.1	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	1.7	4.8	1.4	1.7	*
105.0	3.0	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	1.8	4.8	1.3	1.6	*
106.0	2.8	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.1	4.9	1.3	1.5	*
107.0	2.7	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.4	5.1	1.3	1.4	*
108.0	2.5	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.5	5.0	1.3	1.2	*
109.0	2.5	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.4	4.9	1.4	1.1	*
110.0	2.5	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	2.1	4.6	1.4	1.1	*
111.0	2.5	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	1.9	4.4	1.4	1.1	*
112.0	2.4	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	1.8	4.2	1.4	1.0	*
113.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.0	1.3	0.8	*
114.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	1.4	0.6	*
115.0	1.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.2	4.0	1.4	0.3	*
116.0	1.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.4	3.9	1.6	0.0	*
117.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.8	1.6	-0.3	*
118.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.6	1.6	-0.5	*
119.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.4	1.6	-0.8	*
120.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.2	1.6	-1.1	*
121.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.0	1.6	-1.3	*
122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	1.6	-1.6	*
123.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	9.2	1.6	-1.8	*
124.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	8.8	2.1	-2.1	*
125.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	8.5	8.2	-3.0	*
126.0	5.2	0.0	-0.2	0.0	0.0	-1.1	0.0	0.0	0.0	3.3	8.3	4.6	0.3	*
127.0	4.9	0.0	-0.2	0.0	0.0	-1.1	0.0	0.0	0.0	3.8	8.7	4.6	0.3	*
128.0	4.7	0.0	-0.2	0.0	0.0	-1.1	0.0	0.0	0.0	3.8	8.3	4.7	0.1	*
129.0	4.6	0.0	-0.2	0.0	0.0	-1.1	0.0	0.0	0.0	3.7	8.1	2.1	-0.2	*
130.0	4.4	0.0	-0.2	0.0	0.0	-1.1	0.0	0.0	0.0	3.1	5.9	2.1	2.3	*
140.0	2.8	0.0	-0.2	0.0	0.0	-0.9	0.0	0.0	0.0	3.1	4.1	1.8	0.7	*
150.0	1.0	0.0	-0.2	0.0	0.0	-0.9	0.0	0.0	0.0	2.8	2.3	1.6	-0.8	*
160.0	-0.5	0.0	-0.2	0.0	0.0	-0.8	0.0	0.0	0.0	2.6	0.8	1.5	-2.1	*
170.0	-1.8	0.0	-0.2	0.0	0.0	-0.7	0.0	0.0	0.0	2.3	-0.6	1.4	-3.3	*
180.0	-3.9	0.0	-0.1	0.0	0.0	-0.7	0.0	0.0	0.0	2.1	-1.8	1.3	-4.3	*
190.0	-4.7	0.0	-0.1	0.0	0.0	-0.6	0.0	0.0	0.0	2.0	-3.8	1.2	-5.2	*
200.0	-5.4	0.0	-0.1	0.0	0.0	-0.6	0.0	0.0	0.0	1.8	-3.6	1.1	-5.9	*
210.0	-5.8	0.0	-0.1	0.0	0.0	-0.5	0.0	0.0	0.0	1.6	-4.2	1.1	-6.5	*
220.0	-6.2	0.0	-0.1	0.0	0.0	-0.5	0.0	0.0	0.0	1.5	-4.7	1.0	-6.9	*
230.0	-6.4	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	0.0	1.3	-5.1	0.9	-7.2	*
240.0	-6.6	0.0	-0.1	0.0	0.0	-0.4	0.0	0.0	0.0	1.2	-5.4	0.8	-7.4	*
250.0	-6.6	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	1.1	-5.6	0.8	-7.4	*
260.0	-6.5	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	0.9	-5.6	0.7	-7.2	*
270.0	-6.4	0.0	-0.1	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	-5.4	0.6	-7.0	*
280.0	-6.1	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	-5.4	0.6	-6.7	*
290.0	-5.8	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	-4.7	0.5	-6.4	*
300.0	-5.4	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	-4.3	0.5	-5.9	*
310.0	-5.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	-4.3	0.4	-5.4	*
320.0	-5.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	-4.3	0.4	-5.4	*

GN/C										ALPHA POS									
TIME	NOM	VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS					
330.0	-4.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-3.8	0.4	-4.9					
340.0	-3.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-3.3	0.4	-4.3					
350.0	-3.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	-2.7	0.4	-3.7					
360.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.1	0.4	-3.1					
370.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.4	0.5	-2.5					
380.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.7	0.5	-1.9					
390.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	0.0	0.6	-1.3					
400.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	0.6	0.7	-0.7					
410.0	0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	1.4	0.8	-0.1					
420.0	1.3	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	1.9	0.9	0.5					
430.0	1.9	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	2.5	1.0	0.9					
440.0	2.4	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.6	3.0	1.0	1.4					
450.0	2.8	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.6	3.4	1.1	1.7					
460.0	3.1	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.6	3.7	1.2	1.9					
470.0	3.2	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.7	3.9	1.2	2.0					
480.0	3.1	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	3.8	1.3	1.8					

TIME	NOM VAL	GN/C								+RSS	NOM+RSS	-RSS	NOM-RSS	ALPHA	NEG
		1	2	3	4	5	6	7	8						
330.0	-4.5	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-3.8	0.4	-4.9	*	*
340.0	-3.9	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-3.3	0.4	-4.3	*	*
350.0	-3.3	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-2.7	0.4	-3.7	*	*
360.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.1	0.4	-3.1	*	*
370.0	-2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.4	0.5	-2.5	*	*
380.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.7	0.5	-1.9	*	*
390.0	-0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	0.0	0.6	-1.3	*	*
400.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	1.4	0.8	-0.7	*	*
410.0	0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	1.9	0.9	0.5	*	*
420.0	1.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	2.5	1.0	0.9	*	*
430.0	1.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	3.0	1.0	1.4	*	*
440.0	2.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.6	3.4	1.1	1.7	*	*
450.0	3.1	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.6	3.7	1.2	1.9	*	*
460.0	3.1	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.7	3.9	1.2	2.0	*	*
470.0	3.2	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.8	3.8	1.3	1.8	*	*
480.0	3.1	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.8	3.8	1.3	1.8	*	*

PULSION

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NON+RSS	-RSS	NON-RSS	BETA NEG
0.0	-68.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.3	0.0	-68.3	
1.0	-15.9	1.5	0.0	-0.1	0.0	-0.2	0.5	0.0	0.0	0.0	0.0	0.0	1.6	-14.2	1.9	-17.7	
2.0	-6.8	0.6	0.0	-0.1	0.0	-0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.6	-6.1	0.8	-7.5	
3.0	-4.3	0.4	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.5	-3.8	0.5	-4.9	
4.0	-3.2	0.3	0.0	0.0	0.0	-0.2	-0.3	0.0	0.0	0.0	0.0	0.0	0.5	-2.6	0.6	-3.8	
5.0	-2.5	0.2	0.0	0.0	0.0	-0.2	-0.5	0.0	0.0	0.0	0.0	0.0	0.6	-1.9	0.8	-3.3	
6.0	-2.1	0.2	0.0	0.0	0.0	-0.2	-0.6	0.0	0.0	0.0	0.0	0.0	0.7	-1.4	0.9	-3.0	
7.0	-1.8	0.1	0.0	0.0	0.0	-0.2	-0.6	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	
8.0	-1.8	0.0	0.0	0.0	0.0	-0.3	-0.4	0.0	0.0	0.0	0.0	0.0	0.6	-1.1	1.0	-3.2	
9.0	-2.1	0.0	0.0	0.0	0.0	-0.3	-0.4	0.0	0.0	0.0	0.0	0.0	0.6	-1.5	1.0	-3.7	
10.0	-2.7	0.1	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.4	-2.2	1.0	-4.0	
11.0	-3.0	0.4	0.0	0.0	0.0	-0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.9	-2.1	1.1	-4.1	
12.0	-2.9	0.6	0.0	0.0	0.0	-0.1	0.8	0.0	0.0	0.0	0.0	0.0	1.0	-1.6	1.2	-4.0	
13.0	-2.7	0.6	0.0	0.0	0.0	-0.1	0.9	0.0	0.0	0.0	0.0	0.0	1.1	-1.2	1.3	-3.6	
14.0	-2.3	0.5	0.0	0.0	0.0	-0.1	0.8	0.0	0.0	0.0	0.0	0.0	1.0	-0.9	1.3	-3.2	
15.0	-1.9	0.5	0.0	0.0	0.0	-0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.9	-0.7	1.2	-2.8	
16.0	-1.4	0.4	0.0	0.0	0.0	-0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.8	-0.6	1.1	-2.5	
17.0	-1.4	0.4	0.0	0.0	0.0	-0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.7	-0.5	1.0	-2.2	
18.0	-1.2	0.4	0.0	0.0	0.0	-0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.6	-0.3	0.9	-1.9	
19.0	-1.0	0.4	0.0	0.0	0.0	-0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.6	-0.2	0.9	-1.6	
20.0	-0.8	0.4	0.0	0.0	0.0	-0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	-1.4	
21.0	-0.6	0.4	0.0	0.0	0.0	-0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.8	-1.1	
22.0	-0.4	0.3	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.1	1.9	-2.1	
23.0	-0.3	-1.8	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.3	2.5	-2.6	
24.0	-0.2	-2.4	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.6	-0.7	
25.0	-0.1	0.1	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.6	-0.6	
26.0	0.0	1.2	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.6	-0.6	
27.0	0.0	1.4	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	-0.6	
28.0	0.0	1.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	
29.0	0.0	0.5	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	
30.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	
31.0	0.0	-0.2	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	
32.0	0.0	-0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.7	
33.0	0.1	0.1	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.7	-0.7	
34.0	0.1	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	1.1	0.7	-0.5	
35.0	0.2	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.6	-0.5	
36.0	0.1	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.6	-0.6	
37.0	0.1	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.6	
38.0	0.0	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	
39.0	-0.2	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.7	
40.0	-0.1	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	-0.6	
41.0	0.0	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.5	
42.0	0.0	0.1	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	
43.0	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	
44.0	0.2	0.2	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	
45.0	0.1	0.3	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.5	-0.5	
46.0	0.0	0.3	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.6	-0.6	
47.0	0.0	0.4	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.6	-0.6	
48.0	0.0	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	
49.0	0.0	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	BETA	NEG
50.0	0.1	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	0.7	-0.6
51.0	0.1	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	0.7	-0.6
52.0	0.1	0.2	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	0.7	-0.6
53.0	0.0	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	0.7	-0.7
54.0	0.0	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	-0.7
55.0	-0.1	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.8	0.7	0.6	0.6	-0.7
56.0	-0.1	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	0.6	-0.8
57.0	-0.1	0.3	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	0.6	-0.8
58.0	-0.1	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	0.6	-0.8
60.0	-0.1	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	0.6	-0.8
61.0	-0.2	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	0.6	-0.8
62.0	-0.2	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	0.6	-0.8
63.0	-0.2	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	0.6	-0.8
64.0	-0.2	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.6	0.6	-0.8
65.0	-0.2	0.4	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	0.5	-0.8
66.0	-0.3	0.4	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	0.5	-0.8
67.0	-0.3	0.5	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.7	0.4	0.5	0.5	-0.8
68.0	-0.3	0.5	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.7	0.4	0.5	0.5	-0.9
69.0	-0.3	0.5	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.5	0.5	-0.9
70.0	-0.3	0.6	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.6	0.6	-0.9
71.0	-0.3	0.6	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.6	0.6	-0.9
72.0	-0.3	0.6	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.6	0.6	-0.9
73.0	-0.3	0.6	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.8	0.5	0.6	0.6	-0.9
74.0	-0.3	0.6	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.8	0.5	0.6	0.6	-0.9
75.0	-0.3	0.3	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.6	0.3	0.7	0.7	-1.0
76.0	-0.3	-0.3	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.6	0.3	0.7	0.7	-1.1
77.0	-0.4	-1.2	0.0	0.0	0.0	-0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.6	0.2	1.4	1.4	-1.8
78.0	-0.5	-1.9	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.7	0.2	2.0	2.0	-3.5
79.0	-0.6	-2.3	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.1	2.4	2.4	-3.0
80.0	-0.7	-2.5	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.1	2.6	2.6	-3.3
81.0	-0.7	-2.6	0.0	0.0	0.0	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.1	2.6	2.6	-3.4
82.0	-0.7	-2.5	0.0	0.0	0.0	-0.3	-0.3	0.0	0.0	0.0	-0.1	0.0	0.9	0.2	2.6	2.6	-3.3
83.0	-0.6	-2.5	0.0	0.0	0.0	-0.4	-0.4	0.0	0.0	0.0	-0.1	0.0	1.1	0.4	2.6	2.6	-3.2
84.0	-0.5	-2.4	0.0	0.0	0.0	-0.4	-0.4	0.0	0.0	0.0	-0.1	0.0	1.1	0.6	2.5	2.5	-3.0
85.0	-0.4	-2.1	0.0	0.0	0.0	-0.3	-0.3	0.0	0.0	0.0	-0.1	0.0	1.2	0.8	2.2	2.2	-2.6
86.0	-0.3	-1.6	0.0	0.0	0.0	-0.3	-0.3	0.0	0.0	0.0	-0.1	0.0	1.3	1.0	1.8	1.8	-2.0
87.0	-0.4	-1.1	0.0	0.0	0.0	-0.2	-0.2	0.0	0.0	0.0	-0.1	0.0	1.3	1.2	1.4	1.4	-1.3
88.0	-0.2	-0.6	0.0	0.0	0.0	-0.2	-0.2	0.0	0.0	0.0	-0.1	0.0	1.2	1.5	1.1	1.1	-0.9
89.0	0.5	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	1.2	1.7	1.0	1.0	-0.5
90.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	1.2	2.0	1.0	1.0	-0.2
91.0	1.0	-0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.2	2.2	1.0	1.0	0.0
92.0	1.2	-1.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.1	2.4	1.6	1.6	-0.4
93.0	1.0	-1.9	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	1.2	2.2	2.2	2.2	-1.2
94.0	0.4	-1.8	0.0	0.0	0.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	1.5	1.9	2.1	2.1	-1.6
95.0	-0.2	-1.3	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	-0.1	0.0	1.7	1.5	1.7	1.7	-1.9
96.0	-0.4	-1.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	1.4	1.0	1.6	1.6	-2.0
97.0	-0.3	-1.1	0.0	0.0	-0.2	0.0	0.0	0.0	-0.1	0.0	-0.2	0.0	1.3	1.0	1.7	1.7	-2.0
98.0	-0.1	-1.2	0.0	0.0	-0.1	0.0	-0.1	0.0	0.0	0.0	-0.2	0.0	1.4	1.3	1.8	1.8	-1.9
99.0	0.1	-1.2	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	1.5	1.6	1.8	1.8	-1.7

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	POS
100.0	0.3	-0.6	0.0	0.0	0.0	0.1	0.1	0.5	0.0	0.0	0.1	0.3	1.5	1.8	1.8	-1.5		
101.0	0.4	-0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.3	1.5	1.9	1.7	-1.3		
102.0	0.5	-0.1	0.8	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.3	1.7	2.2	1.8	-1.3		
103.0	0.6	0.0	2.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.3	2.7	3.3	2.7	-2.2		
104.0	0.7	0.0	3.6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.3	3.9	4.6	4.0	-3.3		
105.0	0.8	0.0	4.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.4	4.9	5.7	5.0	-4.2		
106.0	0.9	0.0	5.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.4	5.3	6.1	5.4	-4.5		
107.0	0.9	0.1	4.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.4	4.9	5.8	5.0	-4.1		
108.0	0.9	0.1	3.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.4	4.0	4.9	4.1	-3.1		
109.0	0.9	0.3	2.6	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.5	3.0	3.9	3.1	-2.2		
110.0	0.9	0.4	1.5	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.1	0.5	2.2	3.0	2.3	-1.4		
111.0	0.8	0.4	0.8	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.1	0.5	1.7	2.5	1.8	-1.0		
112.0	0.8	0.5	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.5	1.6	2.4	1.7	-0.9		
113.0	0.8	0.5	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.5	1.7	2.5	1.8	-0.9		
114.0	0.8	0.6	1.1	0.1	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.6	1.8	2.6	1.9	-1.1		
115.0	0.8	0.6	1.1	0.1	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.6	1.8	2.6	1.9	-1.1		
116.0	0.8	0.6	0.9	0.1	0.0	0.0	0.0	0.7	0.1	0.0	0.1	0.6	1.8	2.5	1.9	-1.1		
117.0	0.7	0.6	0.4	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.6	1.7	2.2	1.6	-1.0		
118.0	0.7	0.7	0.4	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.6	1.5	2.2	1.6	-0.9		
119.0	0.6	0.8	0.4	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.6	1.5	2.2	1.6	-0.9		
120.0	0.6	0.9	0.4	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.6	1.6	2.2	1.5	-1.0		
121.0	0.5	0.9	0.4	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.6	1.6	2.1	1.5	-1.0		
122.0	0.5	0.9	0.4	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.6	1.6	2.0	1.5	-1.0		
123.0	0.4	1.0	0.5	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.5	1.6	2.0	1.5	-1.0		
124.0	0.4	0.9	0.5	0.1	0.0	0.0	0.0	0.6	0.1	0.0	0.2	0.5	1.6	2.0	1.5	-1.0		
125.0	-0.1	1.4	1.0	0.1	0.0	0.0	0.0	1.3	0.1	0.0	0.3	0.0	3.7	1.8	3.2	-2.8		
126.0	-1.2	2.5	1.5	-0.1	0.0	0.0	0.0	1.3	0.1	0.0	0.3	0.0	3.7	2.5	3.2	-2.8		
127.0	-1.2	2.4	0.6	-0.2	0.0	0.0	0.0	1.4	-0.1	0.0	0.3	0.0	3.6	2.4	3.2	-2.8		
128.0	-1.2	2.4	-0.4	-0.2	0.0	0.0	0.0	1.4	-0.1	0.0	0.3	0.0	3.6	2.4	3.2	-2.8		
129.0	-1.3	2.4	-1.3	-0.2	0.0	0.0	0.0	1.3	-0.1	0.0	0.3	0.0	3.6	2.3	3.2	-2.8		
130.0	-1.0	1.6	-1.3	-0.1	0.0	0.0	0.0	1.1	-0.1	0.0	0.3	0.0	3.1	1.8	2.7	-4.0		
140.0	-1.0	0.0	-1.2	-0.1	0.0	0.0	0.0	1.1	-0.1	0.0	0.3	0.0	2.4	1.4	2.5	-3.5		
150.0	-0.7	0.1	-1.1	-0.1	0.0	0.0	0.0	1.1	-0.1	0.0	0.3	0.0	2.3	1.5	2.3	-3.1		
160.0	-0.7	0.2	-1.0	-0.1	0.0	0.0	0.0	1.0	-0.1	0.0	0.2	0.0	2.0	1.2	2.0	-2.9		
170.0	-0.7	0.2	-0.9	-0.1	0.0	0.0	0.0	0.9	0.0	0.0	0.2	0.0	1.8	1.1	1.8	-2.6		
180.0	-0.7	0.2	-0.8	-0.1	0.0	0.0	0.0	0.8	0.0	0.0	0.2	0.0	1.7	0.9	1.7	-2.4		
190.0	-0.7	0.2	-0.7	-0.1	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	1.5	0.8	1.5	-2.3		
200.0	-0.7	0.2	-0.7	-0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.2	0.0	1.4	0.7	1.4	-2.1		
210.0	-0.7	0.2	-0.6	-0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.0	1.2	0.5	1.3	-2.0		
220.0	-0.7	0.1	-0.6	-0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.0	1.1	0.4	1.1	-1.8		
230.0	-0.7	0.1	-0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.0	1.0	0.3	1.0	-1.7		
240.0	-0.7	0.1	-0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.0	0.9	0.2	0.9	-1.6		
250.0	-0.7	0.1	-0.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.8	0.1	0.8	-1.5		
260.0	-0.7	0.1	-0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.7	0.0	0.7	-1.4		
270.0	-0.7	0.1	-0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.6	-0.1	0.6	-1.3		
280.0	-0.7	0.1	-0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.5	-0.2	0.5	-1.2		
290.0	-0.7	0.1	-0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	-0.3	0.4	-1.1		
300.0	-0.7	0.1	-0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1		
310.0	-0.7	0.1	-0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0		
320.0	-0.7	0.1	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0		

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	NEG
330.0	-0.7	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
340.0	-0.7	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.5	0.3	-1.0	*	*
350.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
360.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
370.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.1	*	*
380.0	-0.7	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*	*
390.0	-0.7	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-0.3	0.4	-1.2	*	*
400.0	-0.7	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-0.3	0.5	-1.2	*	*
410.0	-0.7	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-0.2	0.5	-1.2	*	*
420.0	-0.7	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.2	0.6	-1.3	*	*
430.0	-0.7	0.2	-0.2	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-0.1	0.6	-1.3	*	*
440.0	-0.7	0.2	-0.2	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.1	0.0	0.6	-0.1	0.7	-1.4	*	*
450.0	-0.7	0.3	-0.2	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.7	-1.4	*	*
460.0	-0.7	0.3	-0.2	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.1	0.0	0.8	0.0	0.7	-1.5	*	*
470.0	-0.7	0.3	-0.3	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.1	0.0	0.8	0.1	0.8	-1.5	*	*
480.0	-0.6	0.3	-0.3	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.1	0.0	0.8	0.2	0.9	-1.5	*	*

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA POS
0.0	-68.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.3	0.0	-68.3	*
1.0	-15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	-14.2	1.9	-17.7	*
2.0	-6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-6.1	0.8	-7.5	*
3.0	-4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-3.8	0.5	-4.9	*
4.0	-3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-2.6	0.6	-3.8	*
5.0	-2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.9	0.8	-3.3	*
6.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-1.4	0.9	-2.0	*
7.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*
8.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*
9.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.5	1.0	-3.2	*
10.0	-2.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-2.2	1.0	-3.7	*
11.0	-3.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.4	1.1	-4.0	*
12.0	-2.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-2.1	1.2	-4.1	*
13.0	-2.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-1.6	1.3	-4.0	*
14.0	-2.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-1.2	1.3	-3.6	*
15.0	-1.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-0.9	1.3	-3.2	*
16.0	-1.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-0.7	1.2	-2.8	*
17.0	-1.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.8	-0.5	1.1	-2.5	*
18.0	-1.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.7	-0.5	1.0	-2.2	*
19.0	-1.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.6	-0.3	0.9	-1.9	*
20.0	-0.8	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.6	-0.2	0.9	-1.6	*
21.0	-0.4	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.8	-1.4	*
22.0	-0.3	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.1	0.8	-1.1	*
23.0	-0.3	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.1	1.9	-2.1	*
24.0	-0.2	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.4	2.5	-2.6	*
25.0	0.0	0.0	0.0	0.0	0.3	0.0	-0.1	0.0	0.0	1.3	1.3	0.6	-0.6	*
26.0	0.0	0.0	0.0	0.0	0.3	0.0	-0.1	0.0	0.0	1.5	1.3	0.6	-0.6	*
27.0	0.0	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	1.1	1.1	0.6	-0.6	*
28.0	0.0	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.8	0.7	0.6	-0.7	*
29.0	0.0	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.6	0.6	0.7	-0.7	*
30.0	0.0	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.6	0.6	0.7	-0.7	*
31.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.7	0.7	0.8	-0.7	*
32.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.7	0.7	0.8	-0.7	*
33.0	0.1	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.8	0.9	0.7	-0.6	*
34.0	0.1	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.8	1.1	0.7	-0.5	*
35.0	0.2	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.8	1.0	0.6	-0.5	*
36.0	0.2	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.7	0.6	0.6	-0.6	*
37.0	0.1	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.7	0.6	0.6	-0.6	*
38.0	0.0	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*
39.0	-0.2	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.7	*
40.0	-0.1	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.6	0.4	0.6	-0.6	*
41.0	0.0	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.6	0.4	0.6	-0.5	*
42.0	0.1	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.6	0.4	0.6	-0.4	*
43.0	0.2	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.6	0.4	0.6	-0.4	*
44.0	0.2	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.6	0.4	0.6	-0.4	*
45.0	0.1	0.0	0.0	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.4	0.5	-0.4	*
46.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.7	0.3	0.5	-0.5	*
47.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.7	0.2	0.6	-0.6	*
48.0	0.0	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.1	0.7	-0.7	*
49.0	0.0	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.0	0.7	-0.7	*

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA NEG
0.0	-68.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.3	0.0	-68.3	*
1.0	-15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	-14.2	1.9	-17.7	*
2.0	-6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-6.1	0.8	-7.5	*
3.0	-4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-3.8	0.5	-4.9	*
4.0	-3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-2.6	0.6	-3.8	*
5.0	-2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.9	0.8	-3.3	*
6.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-1.4	0.9	-3.0	*
7.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*
8.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*
9.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.5	1.0	-3.2	*
10.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-2.2	1.0	-3.7	*
11.0	-2.9	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.4	1.1	-4.0	*
12.0	-2.7	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-2.1	1.2	-4.1	*
13.0	-2.7	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-1.6	1.3	-3.6	*
14.0	-1.9	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-0.9	1.3	-3.2	*
15.0	-1.6	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-0.7	1.2	-2.8	*
16.0	-1.4	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.6	1.1	-2.5	*
17.0	-1.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-0.5	1.0	-2.2	*
18.0	-1.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.3	0.9	-1.9	*
19.0	-0.8	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.2	0.9	-1.6	*
20.0	-0.6	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	-1.4	*
21.0	-0.4	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.8	-1.1	*
22.0	-0.3	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	1.9	-2.1	*
23.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	2.5	-2.6	*
24.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.6	-0.7	*
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.6	-0.6	*
26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.6	-0.6	*
27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	-0.6	*
28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	*
29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*
31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.8	-0.7	*
32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.7	-0.6	*
33.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.7	-0.5	*
34.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	0.7	-0.5	*
35.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.6	-0.6	*
36.0	0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.6	-0.6	*
37.0	0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*
38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.7	*
39.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.6	*
40.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.5	*
41.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*
42.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*
43.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*
44.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*
45.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.5	-0.5	*
46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.6	-0.6	*
47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*
48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*
49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA POS
50.0	0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.8	0.7	-0.6	*
51.0	0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.8	0.7	-0.6	*
52.0	0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.8	0.7	-0.6	*
53.0	0.0	0.0	0.0	0.0	0.6	0.1	-0.1	0.0	0.0	0.7	0.8	0.7	-0.7	*
54.0	0.0	0.0	0.0	0.0	0.6	0.1	-0.1	0.0	0.0	0.7	0.7	0.7	-0.7	*
55.0	-0.1	0.0	0.0	0.0	0.6	0.1	-0.1	0.0	0.0	0.8	0.7	0.6	-0.7	*
56.0	-0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.6	0.6	-0.8	*
57.0	-0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.6	0.6	-0.8	*
58.0	-0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*
59.0	-0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*
60.0	-0.1	0.0	0.0	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*
61.0	-0.2	0.0	0.1	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*
62.0	-0.2	0.0	0.1	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*
63.0	-0.2	0.0	0.1	0.0	0.5	0.1	-0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*
64.0	-0.2	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.4	0.6	-0.8	*
65.0	-0.2	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*
66.0	-0.3	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*
67.0	-0.3	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*
68.0	-0.3	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*
69.0	-0.3	0.0	0.1	0.0	0.4	0.1	-0.1	0.0	0.0	0.7	0.4	0.5	-0.9	*
70.0	-0.3	0.0	0.1	0.0	0.3	0.1	-0.1	0.0	0.0	0.7	0.4	0.5	-0.9	*
71.0	-0.3	0.0	0.1	0.0	0.3	0.1	-0.1	0.0	0.0	0.8	0.4	0.6	-0.9	*
72.0	-0.3	0.0	0.1	0.0	0.3	0.1	-0.1	0.0	0.0	0.8	0.4	0.6	-0.9	*
73.0	-0.3	0.0	0.1	0.0	0.3	0.1	-0.1	0.0	0.0	0.8	0.5	0.6	-0.9	*
74.0	-0.3	0.0	0.1	0.0	0.3	0.1	-0.1	0.0	0.0	0.8	0.5	0.6	-0.9	*
75.0	-0.3	0.0	0.1	0.0	0.3	0.1	-0.1	0.0	0.0	0.6	0.5	0.6	-0.9	*
76.0	-0.3	0.0	0.1	0.0	0.3	0.1	-0.1	0.0	0.0	0.6	0.5	0.7	-1.0	*
77.0	-0.4	0.0	0.1	0.0	0.2	0.1	-0.1	0.0	0.0	0.6	0.3	0.7	-1.1	*
78.0	-0.5	0.1	0.1	0.0	0.2	0.1	-0.1	0.0	0.0	0.6	0.2	1.4	-1.8	*
79.0	-0.6	0.2	0.1	0.0	0.2	0.2	-0.1	0.0	0.0	0.7	0.2	2.0	-3.5	*
80.0	-0.7	0.2	-0.1	-0.1	0.2	0.1	-0.1	0.0	0.0	0.8	0.1	2.6	-3.3	*
81.0	-0.7	0.2	-0.2	-0.2	0.1	0.1	-0.1	0.0	0.0	0.9	0.1	2.6	-3.4	*
82.0	-0.6	0.2	-0.3	-0.3	0.0	0.0	-0.1	0.0	0.0	0.9	0.2	2.6	-3.3	*
83.0	-0.6	0.2	-0.4	-0.4	0.0	-0.1	0.0	0.0	0.0	1.1	0.4	2.6	-3.2	*
84.0	-0.5	0.2	-0.5	-0.4	0.0	-0.1	0.0	0.0	0.0	1.1	0.6	2.5	-3.0	*
85.0	-0.4	0.2	-0.5	-0.4	-0.1	-0.2	0.0	0.0	0.0	1.2	0.8	2.2	-2.6	*
86.0	-0.3	0.2	-0.5	-0.4	-0.1	-0.3	0.1	0.0	0.0	1.3	1.0	1.8	-2.0	*
87.0	-0.1	0.1	-0.5	-0.4	-0.2	-0.4	0.1	0.0	0.0	1.3	1.2	1.4	-1.5	*
88.0	0.2	0.0	-0.5	-0.4	-0.2	-0.4	0.1	0.0	0.0	1.3	1.5	1.1	-0.9	*
89.0	0.5	0.0	-0.4	-0.3	-0.3	-0.5	0.2	0.0	0.0	1.2	1.7	1.0	-0.5	*
90.0	0.8	0.0	-0.3	-0.2	-0.3	-0.5	0.2	0.0	0.0	1.2	2.0	1.0	-0.2	*
91.0	1.0	-0.1	-0.2	-0.1	-0.3	-0.5	0.2	0.0	0.0	1.2	2.2	1.0	0.0	*
92.0	1.2	-0.1	-0.1	-0.1	-0.3	-0.5	0.2	0.0	0.0	1.1	2.4	1.6	-0.4	*
93.0	1.0	0.1	-0.1	0.0	-0.2	-0.4	0.1	0.0	0.0	1.2	2.3	2.2	-1.2	*
94.0	0.4	0.3	-0.1	0.0	-0.1	-0.4	0.1	0.0	0.0	1.5	1.9	2.1	-1.6	*
95.0	-0.2	0.2	-0.1	-0.2	0.0	-0.3	0.1	0.0	0.0	1.4	1.5	1.7	-1.9	*
96.0	-0.4	-0.3	-0.2	-0.2	0.1	-0.2	0.1	0.0	0.0	1.3	1.0	1.6	-2.0	*
97.0	-0.3	-0.2	-0.2	-0.2	0.1	-0.2	0.1	0.0	0.0	1.4	1.3	1.7	-2.0	*
98.0	-0.1	-0.2	-0.2	-0.2	0.2	-0.2	0.1	0.0	0.0	1.4	1.3	1.8	-1.9	*
99.0	0.1	-0.1	-0.2	-0.2	0.2	-0.1	0.1	0.0	0.0	1.5	1.6	1.8	-1.7	*

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	NEG
50.0	0.1	0.0	0.0	0.0	-0.5	-0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*	*
51.0	0.1	0.0	0.0	0.0	-0.6	-0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*	*
52.0	0.1	0.0	0.0	0.0	-0.6	-0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*	*
53.0	0.0	0.0	0.0	0.0	-0.6	-0.1	0.1	0.0	0.0	0.7	0.8	0.7	-0.7	*	*
54.0	0.0	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.7	0.7	-0.7	*	*
55.0	-0.1	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.8	0.7	0.6	-0.7	*	*
56.0	-0.1	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.6	0.6	-0.8	*	*
57.0	-0.1	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.6	0.6	-0.8	*	*
58.0	-0.1	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
59.0	-0.1	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
60.0	-0.1	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
61.0	-0.2	0.0	-0.1	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
62.0	-0.2	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
63.0	-0.2	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
64.0	-0.2	0.0	0.0	0.0	-0.5	-0.1	0.1	0.0	0.0	0.7	0.4	0.6	-0.8	*	*
65.0	-0.2	0.0	0.0	0.0	-0.4	-0.1	0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
66.0	-0.3	0.0	0.0	0.0	-0.4	-0.1	0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
67.0	-0.3	0.0	0.0	0.0	-0.4	-0.1	0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
68.0	-0.3	0.0	0.0	0.0	-0.4	-0.1	0.1	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
69.0	-0.3	0.0	-0.1	0.0	-0.4	-0.1	0.1	0.0	0.0	0.7	0.4	0.5	-0.9	*	*
70.0	-0.3	0.0	-0.1	0.0	-0.4	-0.1	0.1	0.0	0.0	0.7	0.4	0.5	-0.9	*	*
71.0	-0.3	0.0	-0.1	0.0	-0.3	-0.1	0.1	0.0	0.0	0.8	0.4	0.6	-0.9	*	*
72.0	-0.3	0.0	-0.1	0.0	-0.3	-0.1	0.1	0.0	0.0	0.8	0.4	0.6	-0.9	*	*
73.0	-0.3	0.0	-0.1	0.0	-0.3	-0.1	0.1	0.0	0.0	0.8	0.5	0.6	-0.9	*	*
74.0	-0.3	0.0	-0.1	0.0	-0.3	-0.1	0.1	0.0	0.0	0.8	0.5	0.6	-0.9	*	*
75.0	-0.3	0.0	-0.1	0.0	-0.3	-0.1	0.1	0.0	0.0	0.6	0.3	0.7	-1.0	*	*
76.0	-0.3	0.0	-0.1	0.0	-0.3	-0.1	0.1	0.0	0.0	0.6	0.3	0.7	-1.1	*	*
77.0	-0.4	0.0	-0.1	0.0	-0.2	-0.2	0.1	0.0	0.0	0.6	0.2	1.4	-1.8	*	*
78.0	-0.5	-0.1	0.0	0.0	-0.2	-0.2	0.1	0.0	0.0	0.7	0.2	2.0	-2.5	*	*
79.0	-0.6	-0.1	0.1	0.1	-0.2	-0.2	0.1	0.0	0.0	0.7	0.1	2.4	-3.0	*	*
80.0	-0.7	-0.1	0.2	0.2	-0.1	-0.1	0.1	0.0	0.0	0.8	0.1	2.6	-3.3	*	*
81.0	-0.7	-0.1	0.3	0.3	-0.1	-0.1	0.1	0.0	0.0	0.9	0.1	2.6	-3.4	*	*
82.0	-0.7	-0.1	0.4	0.4	-0.1	-0.1	0.1	0.0	0.0	0.9	0.2	2.6	-3.3	*	*
83.0	-0.6	0.0	0.4	0.4	0.0	0.0	0.1	0.0	0.0	1.1	0.4	2.6	-3.2	*	*
84.0	-0.5	0.0	0.5	0.5	0.1	0.2	0.0	0.0	0.0	1.1	0.6	2.5	-3.0	*	*
85.0	-0.4	-0.1	0.5	0.5	0.1	0.2	0.0	0.0	0.0	1.2	0.8	2.2	-2.6	*	*
86.0	-0.3	0.0	0.5	0.5	0.2	0.3	-0.1	0.0	0.0	1.3	1.0	1.8	-2.0	*	*
87.0	-0.1	0.0	0.5	0.4	0.2	0.4	-0.1	0.0	0.0	1.3	1.2	1.4	-1.5	*	*
88.0	0.2	0.1	0.4	0.4	0.3	0.4	-0.1	0.0	0.0	1.3	1.3	1.1	-0.9	*	*
89.0	0.5	0.1	0.4	0.3	0.3	0.5	-0.2	0.0	0.0	1.2	1.7	1.0	-0.5	*	*
90.0	0.8	0.1	0.3	0.2	0.3	0.5	-0.2	0.0	0.0	1.2	2.0	1.0	-0.2	*	*
91.0	1.0	0.1	0.2	0.1	0.3	0.5	-0.2	0.0	0.0	1.2	2.2	1.0	0.0	*	*
92.0	1.2	0.0	0.1	0.1	0.3	0.5	-0.2	0.0	0.0	1.1	2.4	1.6	-0.4	*	*
93.0	1.0	-0.2	0.1	0.0	0.2	0.5	-0.1	0.0	0.1	1.2	2.2	2.2	-1.2	*	*
94.0	0.4	-0.3	0.1	0.1	0.1	0.4	-0.1	0.0	0.1	1.5	1.9	2.1	-1.6	*	*
95.0	-0.2	-0.2	0.1	0.1	0.0	0.3	-0.1	0.0	0.0	1.7	1.5	1.7	-1.9	*	*
96.0	-0.4	0.0	0.2	0.2	0.0	0.2	-0.1	0.0	-0.1	1.4	1.0	1.6	-2.0	*	*
97.0	-0.3	0.0	0.2	0.2	-0.1	0.2	-0.1	0.0	-0.1	1.3	1.0	1.7	-2.0	*	*
98.0	-0.1	0.0	0.2	0.2	-0.2	0.2	-0.1	0.0	0.0	1.4	1.3	1.7	-1.9	*	*
99.0	0.1	0.0	0.2	0.2	-0.2	0.1	-0.1	0.0	0.0	1.5	1.6	1.8	-1.7	*	*

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA POS
100.0	0.3	-0.1	-0.2	-0.1	0.2	-0.1	0.1	0.0	0.0	1.5	1.8	1.8	-1.5	*
101.0	0.4	0.0	-0.2	-0.1	0.2	-0.1	0.1	0.0	0.0	1.5	1.9	1.7	-1.3	*
102.0	0.5	0.0	-0.2	-0.1	0.2	-0.1	0.1	0.0	0.0	1.7	2.2	1.8	-1.3	*
103.0	0.6	0.0	-0.2	-0.1	0.1	-0.2	0.1	0.0	0.0	2.7	3.3	2.7	-2.2	*
104.0	0.7	0.0	-0.2	-0.1	0.1	-0.2	0.1	0.0	0.0	3.9	4.6	4.0	-3.3	*
105.0	0.8	0.0	-0.2	-0.1	0.1	-0.2	0.1	0.0	0.0	4.9	5.7	5.0	-4.2	*
106.0	0.9	-0.1	-0.2	-0.1	0.0	-0.2	0.1	0.0	0.0	5.3	6.1	5.4	-4.5	*
107.0	0.9	-0.1	-0.2	-0.1	0.0	-0.3	0.1	0.0	0.0	4.9	5.8	5.0	-4.1	*
108.0	0.9	-0.1	-0.2	-0.2	0.0	-0.3	0.1	0.0	0.0	4.0	4.9	4.1	-3.1	*
109.0	0.9	0.0	-0.2	-0.2	0.0	-0.3	0.1	0.0	0.0	3.0	3.9	3.1	-2.2	*
110.0	0.9	0.0	-0.2	-0.2	-0.1	-0.3	0.1	0.0	0.0	2.2	3.0	2.3	-1.4	*
111.0	0.8	0.0	-0.2	-0.2	-0.1	-0.3	0.1	0.0	0.0	1.7	2.5	1.8	-1.0	*
112.0	0.8	0.0	-0.2	-0.2	-0.2	-0.4	0.1	0.0	0.0	1.6	2.3	1.7	-0.9	*
113.0	0.8	0.0	-0.3	-0.2	-0.2	-0.4	0.1	0.0	0.0	1.6	2.3	1.7	-0.9	*
114.0	0.8	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.7	2.5	1.8	-1.0	*
115.0	0.8	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.8	2.6	1.9	-1.1	*
116.0	0.8	-0.1	-0.3	-0.2	-0.3	-0.5	0.1	0.0	0.0	1.8	2.5	1.9	-1.1	*
117.0	0.7	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.7	2.4	1.8	-1.0	*
118.0	0.7	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.5	2.2	1.6	-0.9	*
119.0	0.6	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.5	2.2	1.6	-0.9	*
120.0	0.6	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.6	2.2	1.5	-1.0	*
121.0	0.5	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.6	2.1	2.0	-1.4	*
122.0	0.5	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.6	2.1	2.3	-2.8	*
123.0	0.4	-0.1	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.6	2.0	2.3	-2.8	*
124.0	0.4	-0.2	-0.3	-0.2	-0.3	-0.4	0.1	0.0	0.0	1.6	2.0	2.2	-3.3	*
125.0	-0.1	-0.2	-0.3	-0.2	-0.3	-0.4	0.7	0.0	0.0	1.9	1.8	2.5	-3.7	*
126.0	-1.2	0.2	-0.5	-0.3	-0.8	-0.9	0.4	0.0	0.0	3.7	2.5	2.5	-3.7	*
127.0	-1.2	0.2	-0.5	-0.4	-0.8	-0.9	0.4	0.0	0.0	3.6	2.4	2.5	-3.7	*
128.0	-1.2	0.2	-0.5	-0.4	-0.8	-0.9	0.4	0.0	0.0	3.6	2.4	2.5	-4.0	*
129.0	-1.3	0.2	-0.5	-0.3	-0.8	-0.9	0.4	0.0	0.0	3.1	1.8	2.7	-3.5	*
130.0	-1.0	0.0	-0.3	-0.3	-0.7	-0.8	0.4	0.0	0.0	2.4	1.4	2.5	-3.1	*
140.0	-0.7	0.1	-0.3	-0.2	-0.6	-0.7	0.3	0.0	0.0	2.3	1.5	2.2	-2.9	*
150.0	-0.7	0.1	-0.3	-0.2	-0.6	-0.7	0.3	0.0	0.0	2.0	1.2	2.0	-2.7	*
160.0	-0.7	0.1	-0.3	-0.2	-0.5	-0.6	0.3	0.0	0.0	1.8	1.1	1.8	-2.6	*
170.0	-0.7	0.1	-0.3	-0.2	-0.5	-0.6	0.3	0.0	0.0	1.7	0.9	1.7	-2.4	*
180.0	-0.7	0.1	-0.3	-0.2	-0.4	-0.5	0.2	0.0	0.0	1.5	0.8	1.5	-2.3	*
190.0	-0.7	0.1	-0.2	-0.2	-0.4	-0.5	0.2	0.0	0.0	1.4	0.7	1.4	-2.1	*
200.0	-0.7	0.1	-0.2	-0.2	-0.4	-0.4	0.2	0.0	0.0	1.2	0.5	1.3	-2.0	*
210.0	-0.7	0.1	-0.2	-0.2	-0.3	-0.4	0.2	0.0	0.0	1.1	0.4	1.1	-1.8	*
220.0	-0.7	0.0	-0.2	-0.2	-0.3	-0.3	0.1	0.0	0.0	1.0	0.3	1.0	-1.7	*
230.0	-0.7	0.0	-0.2	-0.1	-0.3	-0.3	0.1	0.0	0.0	0.9	0.2	0.9	-1.6	*
240.0	-0.7	0.0	-0.2	-0.1	-0.2	-0.3	0.1	0.0	0.0	0.8	0.1	0.8	-1.5	*
250.0	-0.7	0.0	-0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.7	0.0	0.7	-1.4	*
260.0	-0.7	0.0	-0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.6	-0.1	0.6	-1.3	*
270.0	-0.7	0.0	-0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.5	-0.2	0.5	-1.2	*
280.0	-0.7	0.0	-0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.4	-0.3	0.4	-1.2	*
290.0	-0.7	0.0	-0.1	-0.1	-0.1	-0.2	0.1	0.0	0.0	0.4	-0.4	0.4	-1.1	*
300.0	-0.7	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*
310.0	-0.7	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*
320.0	-0.7	0.0	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA NEG
100.0	0.3	0.0	0.2	0.2	-0.2	0.1	-0.1	0.0	0.0	1.5	1.8	1.8	-1.5	*
101.0	0.4	0.0	0.2	0.2	-0.2	0.1	-0.1	0.0	0.0	1.5	1.9	1.7	-1.3	*
102.0	0.5	0.0	0.2	0.2	-0.1	0.1	-0.1	0.0	0.0	1.7	2.2	1.8	-1.3	*
103.0	0.6	0.0	0.2	0.1	-0.1	0.1	-0.1	0.0	0.0	2.7	3.3	2.7	-2.2	*
104.0	0.7	0.0	0.2	0.1	-0.1	0.2	-0.1	0.0	0.0	3.9	4.6	4.0	-3.3	*
105.0	0.8	0.0	0.2	0.1	-0.1	0.2	-0.1	0.0	0.0	4.9	5.7	5.0	-4.2	*
106.0	0.9	0.0	0.2	0.2	0.0	0.2	-0.1	0.0	0.0	5.3	6.1	5.4	-4.5	*
107.0	0.9	0.0	0.2	0.2	0.0	0.2	-0.1	0.0	0.0	4.9	5.8	5.0	-4.1	*
108.0	0.9	0.0	0.2	0.2	0.0	0.3	-0.1	0.0	0.0	4.0	4.9	4.1	-3.1	*
109.0	0.9	0.0	0.2	0.2	0.1	0.3	-0.1	0.0	0.0	3.0	3.9	3.1	-2.2	*
110.0	0.9	0.0	0.2	0.2	0.1	0.3	-0.1	0.0	0.0	2.2	3.0	2.3	-1.4	*
111.0	0.8	0.1	0.2	0.2	0.1	0.3	-0.1	0.0	0.0	1.7	2.5	1.8	-1.0	*
112.0	0.8	0.1	0.2	0.2	0.2	0.4	-0.1	0.0	0.0	1.6	2.4	1.7	-0.9	*
113.0	0.8	0.1	0.3	0.2	0.3	0.4	-0.1	0.0	0.0	1.6	2.3	1.7	-0.9	*
114.0	0.8	0.1	0.3	0.2	0.4	0.4	-0.2	0.0	0.0	1.7	2.5	1.8	-1.0	*
115.0	0.8	0.1	0.3	0.2	0.4	0.4	-0.2	0.0	0.0	1.8	2.6	1.9	-1.1	*
116.0	0.8	0.1	0.3	0.3	0.4	0.4	-0.2	0.0	0.0	1.8	2.5	1.9	-1.1	*
117.0	0.7	0.1	0.3	0.3	0.4	0.4	-0.2	0.0	0.0	1.7	2.4	1.8	-1.0	*
118.0	0.7	0.1	0.3	0.3	0.4	0.4	-0.2	0.0	0.0	1.5	2.2	1.6	-0.9	*
119.0	0.6	0.1	0.3	0.3	0.4	0.4	-0.2	0.0	0.0	1.5	2.2	1.6	-0.9	*
120.0	0.6	0.1	0.3	0.3	0.4	0.4	-0.2	0.0	0.0	1.6	2.2	1.5	-1.0	*
121.0	0.5	0.1	0.3	0.2	0.4	0.4	-0.1	0.0	0.0	1.6	2.1	2.0	-1.4	*
122.0	0.5	0.1	0.3	0.2	0.4	0.4	-0.1	0.0	0.0	1.6	2.0	3.3	-2.8	*
123.0	0.4	0.1	0.3	0.2	0.4	0.4	-0.1	0.0	0.0	1.6	2.0	3.2	-2.8	*
124.0	0.4	0.1	0.3	0.2	0.4	0.5	-0.1	0.0	0.0	1.6	2.0	3.2	-2.8	*
125.0	-0.1	0.1	-0.4	0.2	-0.2	-0.1	-0.1	0.0	0.0	1.9	1.8	3.2	-3.3	*
126.0	-1.2	-0.2	0.4	0.4	0.8	0.9	-0.4	0.0	0.0	3.7	2.5	2.5	-3.7	*
127.0	-1.2	-0.2	0.4	0.4	0.8	0.9	-0.4	0.0	0.0	3.6	2.4	2.5	-3.7	*
128.0	-1.2	-0.2	0.5	0.4	0.8	0.9	-0.4	0.0	0.0	3.6	2.4	2.5	-3.7	*
129.0	-1.3	-0.2	0.4	0.4	0.8	0.9	-0.4	0.0	0.0	3.6	2.3	2.7	-4.0	*
130.0	-1.3	-0.2	0.4	0.4	0.8	0.9	-0.4	0.0	0.0	3.1	1.8	2.5	-3.5	*
140.0	-1.0	-0.2	0.3	0.2	0.7	0.8	-0.3	0.0	0.0	2.4	1.4	2.3	-3.1	*
150.0	-0.7	-0.1	0.3	0.3	0.7	0.7	-0.3	0.0	0.0	2.3	1.5	2.2	-2.9	*
160.0	-0.7	-0.2	0.3	0.3	0.6	0.7	-0.3	0.0	0.0	2.0	1.2	2.0	-2.7	*
170.0	-0.7	-0.1	0.3	0.3	0.6	0.6	-0.3	0.0	0.0	1.8	1.1	1.8	-2.6	*
180.0	-0.7	-0.1	0.3	0.2	0.5	0.6	-0.2	0.0	0.0	1.7	0.9	1.7	-2.4	*
190.0	-0.7	-0.1	0.3	0.2	0.5	0.5	-0.2	0.0	0.0	1.5	0.8	1.5	-2.3	*
200.0	-0.7	-0.1	0.3	0.2	0.4	0.5	-0.2	0.0	0.0	1.4	0.7	1.4	-2.1	*
210.0	-0.7	-0.1	0.2	0.2	0.4	0.4	-0.2	0.0	0.0	1.2	0.5	1.3	-2.0	*
220.0	-0.7	-0.1	0.2	0.2	0.3	0.4	-0.2	0.0	0.0	1.1	0.4	1.1	-1.8	*
230.0	-0.7	-0.1	0.2	0.2	0.3	0.3	-0.1	0.0	0.0	1.0	0.3	1.0	-1.7	*
240.0	-0.7	-0.1	0.2	0.1	0.3	0.3	-0.1	0.0	0.0	0.9	0.2	0.9	-1.6	*
250.0	-0.7	0.0	0.1	0.1	0.2	0.3	-0.1	0.0	0.0	0.8	0.1	0.8	-1.5	*
260.0	-0.7	0.0	0.1	0.1	0.2	0.3	-0.1	0.0	0.0	0.7	0.0	0.7	-1.4	*
270.0	-0.7	0.0	0.1	0.1	0.2	0.2	-0.1	0.0	0.0	0.6	-0.1	0.6	-1.3	*
280.0	-0.7	0.0	0.1	0.1	0.1	0.2	-0.1	0.0	0.0	0.5	-0.2	0.5	-1.2	*
290.0	-0.7	0.0	0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.4	-0.3	0.4	-1.1	*
300.0	-0.7	0.0	0.1	0.1	0.1	0.1	-0.1	0.0	0.0	0.4	-0.4	0.4	-1.1	*
310.0	-0.7	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*
320.0	-0.7	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*

AERO/ENVIRONMENT															BETA POS	
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	POS	
330.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*	
340.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.5	0.3	-1.0	*	*	
350.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*	
360.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*	
370.0	-0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.1	*	*	
380.0	-0.7	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*	*	
390.0	-0.7	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.4	-0.3	0.4	-1.2	*	*	
400.0	-0.7	0.0	0.0	0.0	0.1	0.1	-0.1	0.0	0.0	0.5	-0.3	0.5	-1.2	*	*	
410.0	-0.7	0.0	0.1	0.0	0.1	0.1	-0.1	0.0	0.0	0.5	-0.2	0.5	-1.3	*	*	
420.0	-0.7	0.0	0.1	0.0	0.1	0.2	-0.1	0.0	0.0	0.6	-0.2	0.6	-1.3	*	*	
430.0	-0.7	0.0	0.1	0.1	0.1	0.2	-0.1	0.0	0.0	0.6	-0.1	0.6	-1.4	*	*	
440.0	-0.7	-0.1	0.1	0.1	0.1	0.2	-0.1	0.0	0.0	0.6	-0.1	0.7	-1.4	*	*	
450.0	-0.7	0.0	0.1	0.1	0.2	0.2	-0.1	0.0	0.0	0.7	0.0	0.7	-1.5	*	*	
460.0	-0.7	-0.1	0.1	0.1	0.2	0.2	-0.1	0.0	0.0	0.8	0.0	0.7	-1.5	*	*	
470.0	-0.7	-0.1	0.1	0.1	0.2	0.2	-0.1	0.0	0.0	0.8	0.1	0.8	-1.5	*	*	
480.0	-0.6	-0.1	0.1	0.1	0.2	0.2	-0.1	0.0	0.0	0.8	0.2	0.9	-1.5	*	*	

AERO/ENVIRONMENT

	1	2	3	4	5	6	7	8	+RSS	NON+RSS	-RSS	NON-RSS	BETA	NEG
TIME														
NOM VAL														
330.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
340.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.5	0.3	-1.0	*	*
350.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
360.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
370.0	-0.7	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.1	*	*
380.0	-0.7	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*	*
390.0	-0.7	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.4	-0.3	0.4	-1.2	*	*
400.0	-0.7	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.5	-0.3	0.5	-1.2	*	*
410.0	-0.7	0.1	-0.1	-0.1	-0.1	0.1	0.0	0.0	0.5	-0.2	0.5	-1.2	*	*
420.0	-0.7	0.1	-0.1	-0.1	-0.2	0.1	0.0	0.0	0.6	-0.2	0.6	-1.3	*	*
430.0	-0.7	0.1	-0.1	-0.1	-0.2	0.1	0.0	0.0	0.6	-0.1	0.6	-1.3	*	*
440.0	-0.7	0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.6	-0.1	0.7	-1.4	*	*
450.0	-0.7	0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.7	0.0	0.7	-1.4	*	*
460.0	-0.7	0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.8	0.0	0.7	-1.5	*	*
470.0	-0.7	0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.8	0.1	0.8	-1.5	*	*
480.0	-0.6	0.1	-0.1	-0.2	-0.2	0.1	0.0	0.0	0.8	0.2	0.9	-1.5	*	*

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	POS
0.0	-68.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.3	0.0	-68.3	*	*
1.0	-15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	-14.2	1.9	-17.7	*	*
2.0	-6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-6.1	0.8	-7.5	*	*
3.0	-4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-3.8	0.5	-4.9	*	*
4.0	-3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-2.6	0.6	-3.8	*	*
5.0	-2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.9	0.8	-3.3	*	*
6.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-1.4	0.9	-3.0	*	*
7.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*	*
8.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*	*
9.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.5	1.0	-3.2	*	*
10.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-2.2	1.0	-3.7	*	*
11.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.4	1.1	-4.0	*	*
12.0	-2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-2.1	1.2	-4.1	*	*
13.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-1.6	1.3	-4.0	*	*
14.0	-2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-1.2	1.3	-3.6	*	*
15.0	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-0.9	1.3	-3.2	*	*
16.0	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-0.7	1.2	-2.8	*	*
17.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.6	1.1	-2.5	*	*
18.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-0.5	1.0	-2.2	*	*
19.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.3	0.9	-1.9	*	*
20.0	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.2	0.9	-1.6	*	*
21.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	-1.4	*	*
22.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.8	-1.1	*	*
23.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	1.9	-2.1	*	*
24.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	2.5	-2.6	*	*
25.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.6	-0.7	*	*
26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.6	-0.6	*	*
27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	-0.6	*	*
28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.7	*	*
29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*	*
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*	*
31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.8	-0.7	*	*
32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.8	-0.7	*	*
33.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.7	-0.7	*	*
34.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.7	-0.6	*	*
35.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	0.7	-0.5	*	*
36.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.6	-0.5	*	*
37.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.6	-0.6	*	*
38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*	*
39.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.7	*	*
40.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	-0.6	*	*
41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.5	*	*
42.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*	*
43.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*	*
44.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.5	-0.5	*	*
45.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.5	-0.5	*	*
46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.6	-0.6	*	*
47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*	*
48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*	*
49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*	*

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+R88	NOM+R88	-R88	NOM-R88	BETA	NEG
0.0	-68.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.3	0.0	-68.3	*	*
1.0	-15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	-14.2	1.9	-17.7	*	*
2.0	-6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-6.1	0.8	-7.5	*	*
3.0	-4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-3.8	0.5	-4.9	*	*
4.0	-3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-2.6	0.6	-3.8	*	*
5.0	-2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-1.9	0.8	-3.3	*	*
6.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-1.4	0.9	-3.0	*	*
7.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*	*
8.0	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*	*
9.0	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.2	1.0	-3.2	*	*
10.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	-2.4	1.1	-4.0	*	*
11.0	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-2.1	1.2	-4.1	*	*
12.0	-2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-2.1	1.2	-4.1	*	*
13.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-1.6	1.3	-3.6	*	*
14.0	-2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-1.2	1.3	-3.2	*	*
15.0	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-0.9	1.2	-2.8	*	*
16.0	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-0.7	1.2	-2.8	*	*
17.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.6	1.1	-2.5	*	*
18.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-0.5	1.0	-2.2	*	*
19.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.3	0.9	-1.9	*	*
20.0	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.2	0.9	-1.6	*	*
21.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	-1.4	*	*
22.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.8	-1.1	*	*
23.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	1.9	-2.1	*	*
24.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	2.5	-2.6	*	*
25.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	0.4	-0.7	*	*
26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.6	-0.6	*	*
27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.6	-0.6	*	*
28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	-0.6	*	*
29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	*	*
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*	*
31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*	*
32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.8	-0.7	*	*
33.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.7	-0.6	*	*
34.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	0.7	-0.5	*	*
35.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.6	-0.5	*	*
36.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.6	-0.6	*	*
37.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.6	*	*
38.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
39.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.7	*	*
40.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	-0.6	*	*
41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.5	*	*
42.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*	*
43.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*	*
44.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.5	-0.5	*	*
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.5	-0.5	*	*
46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.6	-0.6	*	*
47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*	*
48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*	*
49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*	*

MASS PROPERTIES

BETA PDS

TIME	NDM VAL	1	2	3	4	5	6	7	8	9	+RSS	NDM+RSS	-RSS	NDM-RSS	BETA	PDS
50.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*	*
51.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*	*
52.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*	*
53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.7	*	*
54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*	*
55.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	*	*
56.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*	*
57.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*	*
58.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*	*
59.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
60.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
61.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
62.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
63.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*	*
64.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.4	0.6	-0.8	*	*
65.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
66.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
67.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
68.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*	*
69.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.9	*	*
70.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.4	0.5	-0.9	*	*
72.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.4	0.6	-0.9	*	*
73.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	*	*
74.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	*	*
75.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	0.3	0.7	-1.0	*	*
76.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	0.3	0.7	-1.1	*	*
77.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	0.2	1.4	-1.8	*	*
78.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.2	2.0	-2.5	*	*
79.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.1	2.4	-3.0	*	*
80.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.1	2.6	-3.3	*	*
81.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.9	0.1	2.6	-3.4	*	*
82.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	2.6	-3.3	*	*
83.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4	2.6	-3.2	*	*
84.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	2.5	-3.0	*	*
85.0	-0.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.2	0.8	2.2	-2.6	*	*
86.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.3	1.0	1.8	-2.0	*	*
87.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.3	1.2	1.4	-1.5	*	*
88.0	0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.3	1.5	1.1	-0.9	*	*
89.0	0.5	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	1.7	1.0	-0.5	*	*
90.0	0.8	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	2.0	1.0	-0.2	*	*
91.0	1.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	2.2	1.0	0.0	*	*
92.0	1.2	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.1	2.4	1.6	0.0	*	*
93.0	1.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	2.2	2.2	-1.2	*	*
94.0	0.4	0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.9	2.1	-1.6	*	*
95.0	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.7	1.5	1.7	-1.9	*	*
96.0	-0.4	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.4	1.0	1.6	-2.0	*	*
97.0	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.0	1.7	-2.0	*	*
98.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.3	1.8	-1.9	*	*
99.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	1.6	1.8	-1.7	*	*

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA NEG
50.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*
51.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*
52.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*
53.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*
54.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*
55.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	*
56.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*
57.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*
58.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
59.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
60.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
61.0	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
62.0	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
63.0	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
64.0	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.4	0.6	-0.8	*
65.0	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
66.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
67.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
68.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
69.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.9	*
70.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.4	0.5	-0.9	*
71.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	0.4	0.5	-0.9	*
72.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	0.4	0.6	-0.9	*
73.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	*
74.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	*
75.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	0.3	0.7	-1.0	*
76.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	0.2	1.4	-1.8	*
77.0	-0.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	0.2	2.0	-3.5	*
78.0	-0.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.2	2.4	-3.0	*
79.0	-0.6	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	0.1	2.6	-3.3	*
80.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	0.1	2.6	-3.4	*
81.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	2.6	-3.3	*
82.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4	2.5	-3.0	*
83.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.8	2.2	-2.6	*
84.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	1.0	1.8	-2.0	*
85.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	1.2	1.4	-1.5	*
86.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.3	1.5	1.1	-0.9	*
87.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.2	1.7	1.0	-0.5	*
88.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.2	2.0	1.0	-0.2	*
89.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.2	2.2	1.0	0.0	*
90.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.1	2.4	1.6	-0.4	*
91.0	1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.2	2.2	2.2	-1.2	*
92.0	1.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	1.9	2.1	-1.4	*
93.0	1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.7	1.5	1.7	-1.9	*
94.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.0	1.6	-2.0	*
95.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.0	1.7	-2.0	*
96.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.3	1.8	-1.9	*
97.0	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.5	1.8	-1.7	*
98.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.5	1.8	-1.7	*
99.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.5	1.8	-1.7	*

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	POS
100.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	1.8	1.8	-1.5	*	*
101.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.5	1.9	1.7	-1.3	*	*
102.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.7	2.2	1.8	-1.3	*	*
103.0	0.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.7	3.3	2.7	-2.2	*	*
104.0	0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.9	4.6	4.0	-3.3	*	*
105.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	4.9	5.7	5.0	-4.2	*	*
106.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	6.1	5.4	-4.5	*	*
107.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	5.8	5.0	-4.1	*	*
108.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.9	4.1	-3.1	*	*
109.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.9	3.1	-2.2	*	*
110.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.0	2.3	-1.4	*	*
111.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.5	1.8	-1.0	*	*
112.0	0.8	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	2.4	1.7	-0.9	*	*
113.0	0.8	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	2.3	1.7	-0.9	*	*
114.0	0.8	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.7	2.5	1.8	-1.0	*	*
115.0	0.8	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.8	2.6	1.9	-1.1	*	*
116.0	0.8	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.8	2.5	1.9	-1.1	*	*
117.0	0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.7	2.4	1.8	-1.0	*	*
118.0	0.7	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.5	2.2	1.6	-0.9	*	*
119.0	0.6	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.6	2.2	1.5	-0.9	*	*
120.0	0.6	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.6	2.2	1.5	-1.0	*	*
121.0	0.5	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.6	2.1	2.0	-1.4	*	*
122.0	0.5	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.6	2.0	2.3	-2.8	*	*
123.0	0.4	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.6	2.0	2.2	-2.8	*	*
124.0	0.4	-0.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.6	2.0	2.2	-2.8	*	*
125.0	-0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.9	1.8	2.2	-3.3	*	*
126.0	-1.2	0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	3.7	2.5	2.5	-3.7	*	*
127.0	-1.2	0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	3.6	2.4	2.5	-3.7	*	*
128.0	-1.2	0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	3.6	2.4	2.5	-3.7	*	*
129.0	-1.3	0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	3.6	2.3	2.7	-4.0	*	*
130.0	-1.3	0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	3.1	1.8	2.7	-4.0	*	*
140.0	-1.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.4	1.4	2.5	-3.5	*	*
150.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.3	1.5	2.3	-3.1	*	*
160.0	-0.7	0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.1	1.4	2.2	-2.9	*	*
170.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.8	1.2	2.0	-2.7	*	*
180.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.9	1.8	-2.6	*	*
190.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.8	1.5	-2.3	*	*
200.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.7	1.4	-2.1	*	*
210.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.5	1.3	-2.0	*	*
220.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.4	1.1	-1.8	*	*
230.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	1.0	-1.7	*	*
240.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.9	-1.6	*	*
250.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.8	0.1	0.8	-1.5	*	*
260.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.0	0.7	-1.4	*	*
270.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-0.1	0.6	-1.3	*	*
280.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.5	-0.2	0.5	-1.2	*	*
290.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	-0.3	0.4	-1.2	*	*
300.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*	*
310.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.1	*	*
320.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA NEG
100.0	0.3	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.8	1.8	-1.5	*
101.0	0.4	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.9	1.7	-1.3	*
102.0	0.5	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	2.2	1.8	-1.3	*
103.0	0.6	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	2.7	3.3	2.7	-2.2	*
104.0	0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	4.9	4.6	4.0	-3.3	*
105.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.7	5.0	-4.2	*
106.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	6.1	5.4	-4.5	*
107.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	5.8	5.0	-4.1	*
108.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.9	4.1	-3.1	*
109.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.9	3.1	-2.2	*
110.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.0	2.3	-1.4	*
111.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.7	2.5	1.8	-1.0	*
112.0	0.8	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.6	2.4	1.7	-0.9	*
113.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.6	2.3	1.7	-0.9	*
114.0	0.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.7	2.5	1.8	-1.0	*
115.0	0.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.8	2.6	1.9	-1.1	*
116.0	0.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.8	2.5	1.9	-1.1	*
117.0	0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.7	2.4	1.8	-1.0	*
118.0	0.7	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.5	2.2	1.6	-0.9	*
119.0	0.6	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.5	2.2	1.6	-0.9	*
120.0	0.6	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.6	2.2	1.5	-1.0	*
121.0	0.5	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.6	2.1	1.5	-1.4	*
122.0	0.5	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.6	2.1	1.5	-1.4	*
123.0	0.4	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.6	2.0	1.3	-2.8	*
124.0	0.4	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.6	2.0	1.3	-2.8	*
125.0	-0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.9	1.8	1.3	-3.3	*
126.0	-1.2	-0.1	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	3.7	2.5	2.3	-3.7	*
127.0	-1.2	-0.1	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	3.6	2.4	2.3	-3.7	*
128.0	-1.3	-0.1	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	3.6	2.4	2.3	-4.0	*
129.0	-1.3	-0.1	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	3.6	1.8	2.7	-4.0	*
130.0	-1.5	-0.1	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	3.1	1.8	2.7	-4.0	*
140.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.2	-0.1	0.0	0.0	2.4	1.4	2.5	-3.5	*
150.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.3	1.5	2.2	-2.9	*
160.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.1	1.4	2.2	-2.7	*
170.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.0	1.2	2.0	-2.6	*
180.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.8	1.1	1.8	-2.4	*
190.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.7	0.9	1.7	-2.3	*
200.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.8	1.5	-2.1	*
210.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.7	1.4	-2.1	*
220.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.5	1.3	-2.0	*
230.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	1.1	-1.7	*
240.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	1.0	-1.6	*
250.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.2	0.9	-1.5	*
260.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.8	0.1	0.8	-1.4	*
270.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	0.0	0.7	-1.3	*
280.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-0.1	0.6	-1.2	*
290.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.5	-0.2	0.5	-1.2	*
300.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.4	-0.3	0.4	-1.1	*
310.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*
320.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*

MASS PROPERTIES

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	POS
330.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
340.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	-0.5	0.3	-1.0	*	*
350.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
360.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
370.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	-0.4	0.3	-1.1	*	*
380.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*	*
390.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	-0.3	0.4	-1.2	*	*
400.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.5	-0.3	0.5	-1.2	*	*
410.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.5	-0.2	0.5	-1.2	*	*
420.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	-0.2	0.6	-1.3	*	*
430.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	-0.1	0.6	-1.3	*	*
440.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.6	-0.1	0.7	-1.4	*	*
450.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.7	0.0	0.7	-1.4	*	*
460.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.8	0.0	0.7	-1.5	*	*
470.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.8	0.1	0.8	-1.5	*	*
480.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.8	0.2	0.9	-1.5	*	*

MASS PROPERTIES

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	NEG
330.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
340.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.3	-0.5	0.3	-1.0	*	*
350.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
360.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.3	-0.4	0.3	-1.0	*	*
370.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.3	-0.4	0.3	-1.1	*	*
380.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.4	-0.4	0.4	-1.1	*	*
390.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.4	-0.3	0.4	-1.2	*	*
400.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.5	-0.3	0.5	-1.2	*	*
410.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.5	-0.2	0.5	-1.2	*	*
420.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	-0.2	0.6	-1.3	*	*
430.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	-0.1	0.6	-1.3	*	*
440.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.6	-0.1	0.7	-1.4	*	*
450.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.7	0.0	0.7	-1.4	*	*
460.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	0.0	0.7	-1.5	*	*
470.0	-0.7	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	0.1	0.8	-1.5	*	*
480.0	-0.6	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.8	0.2	0.9	-1.5	*	*

GN/C										BETA POS									
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS						
0.0	-68.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.3	0.0	-68.3						
1.0	-15.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	1.6	-14.2	1.9	-17.7						
2.0	-6.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-6.1	0.8	-7.5						
3.0	-4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-3.8	0.5	-4.9						
4.0	-3.2	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-2.6	0.6	-3.8						
5.0	-2.5	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.7	-1.9	0.8	-3.3						
6.0	-2.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.7	-1.4	0.9	-3.0						
7.0	-1.8	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8						
8.0	-1.8	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	-1.1	1.0	-2.8						
9.0	-2.1	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.4	-2.2	1.0	-3.2						
10.0	-2.7	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.6	-2.4	1.1	-4.0						
11.0	-3.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	-2.1	1.2	-4.1						
12.0	-2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-1.6	1.3	-4.0						
13.0	-2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-1.2	1.3	-3.6						
14.0	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-0.9	1.3	-3.2						
15.0	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-0.7	1.2	-2.8						
16.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.6	1.1	-2.5						
17.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-0.5	1.0	-2.2						
18.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.3	0.9	-1.9						
19.0	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.2	0.9	-1.6						
20.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	-1.4						
21.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.8	-1.1						
22.0	-0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	1.9	-2.1						
23.0	-0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	2.5	-2.6						
24.0	-0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.6	-0.7						
25.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.6	-0.6						
26.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.6	-0.6						
27.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	-0.6						
28.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	-0.7						
29.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7						
30.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7						
31.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.8	-0.7						
32.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.7						
33.0	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.9	0.7	-0.6						
34.0	0.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	0.7	-0.5						
35.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.6	-0.5						
36.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.6	-0.6						
37.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.6						
38.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8						
39.0	-0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	-0.6						
40.0	-0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.7						
41.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.6						
42.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.5						
43.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4						
44.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4						
45.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.5	-0.4						
46.0	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.7	0.5	-0.5						
47.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.6	-0.6						
48.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7						
49.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7						

TIME	NDM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NON-RSS	BETA NEG
0.0	-68.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-68.3	0.0	-68.3	*
1.0	-15.9	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.6	-14.2	1.9	-17.7	*
2.0	-6.8	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.6	-6.1	0.8	-7.5	*
3.0	-4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	-3.8	0.5	-4.9	*
4.0	-3.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	-2.6	0.6	-3.8	*
5.0	-2.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	-1.9	0.8	-3.3	*
6.0	-2.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-1.4	0.9	-3.0	*
7.0	-1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.8	-1.1	1.0	-2.8	*
8.0	-1.8	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	-1.1	1.0	-2.8	*
9.0	-2.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.4	-1.5	1.0	-3.2	*
10.0	-2.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	-2.2	1.0	-3.7	*
11.0	-3.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.6	-2.4	1.1	-4.0	*
12.0	-2.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	-2.1	1.2	-4.1	*
13.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-1.6	1.3	-4.0	*
14.0	-2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	-1.2	1.3	-3.6	*
15.0	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	-0.9	1.3	-3.2	*
16.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	-0.7	1.2	-2.8	*
17.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.6	1.1	-2.5	*
18.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	-0.5	1.0	-2.2	*
19.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.3	0.9	-1.9	*
20.0	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	-0.2	0.9	-1.6	*
21.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	-1.4	*
22.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.8	-1.1	*
23.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	1.9	-2.1	*
24.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	2.5	-2.6	*
25.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.4	0.6	-0.7	*
26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.6	-0.6	*
27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.6	-0.6	*
28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.6	-0.6	*
29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	*
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*
31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.7	-0.7	*
32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.8	-0.7	*
33.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.7	-0.6	*
34.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	0.7	-0.5	*
35.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.0	0.6	-0.5	*
36.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.6	-0.6	*
37.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.6	*
38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
39.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.7	*
40.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	-0.6	*
41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.6	-0.5	*
42.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*
43.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.6	-0.4	*
44.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	0.5	-0.4	*
45.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.5	-0.5	*
46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.6	-0.6	*
47.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*
48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*
49.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA POS
50.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*
51.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*
52.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	*
53.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.7	*
54.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	*
55.0	-0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	*
56.0	-0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*
57.0	-0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*
58.0	-0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	*
59.0	-0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
60.0	-0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
61.0	-0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
62.0	-0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	*
63.0	-0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.6	-0.8	*
64.0	-0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.6	-0.8	*
65.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
66.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
67.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
68.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	*
69.0	-0.3	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.9	*
70.0	-0.3	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.5	-0.9	*
71.0	-0.3	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.6	-0.9	*
72.0	-0.3	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	*
73.0	-0.3	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	*
74.0	-0.3	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.7	-1.0	*
75.0	-0.4	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.7	-1.0	*
76.0	-0.4	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	1.4	-1.1	*
77.0	-0.5	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	2.0	-1.2	*
78.0	-0.5	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	2.4	-2.5	*
79.0	-0.6	0.0	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1	2.6	-3.0	*
80.0	-0.7	0.0	-0.4	0.0	0.0	-0.1	0.0	0.0	0.0	0.9	0.1	2.6	-3.4	*
81.0	-0.7	0.0	-0.3	0.0	0.0	-0.2	0.0	0.0	0.0	0.9	0.2	2.6	-3.7	*
82.0	-0.7	0.0	-0.1	0.0	0.0	-0.2	0.0	0.0	0.0	1.1	0.4	2.6	-3.2	*
83.0	-0.6	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.1	0.6	2.5	-3.0	*
84.0	-0.5	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	1.2	0.8	2.2	-2.6	*
85.0	-0.4	0.0	0.3	0.0	0.0	-0.2	0.0	0.0	0.0	1.3	1.0	1.8	-2.0	*
86.0	-0.3	0.0	0.4	0.0	0.0	-0.2	0.0	0.0	0.0	1.3	1.2	1.4	-1.5	*
87.0	-0.1	0.0	0.5	0.0	0.0	-0.2	0.0	0.1	0.0	1.3	1.5	1.1	-0.9	*
88.0	0.2	0.0	0.5	0.0	0.0	-0.2	0.0	0.1	0.0	1.2	1.7	1.0	-0.5	*
89.0	0.5	0.0	0.4	0.0	0.0	-0.2	0.0	0.1	0.0	1.2	2.0	1.0	-0.2	*
90.0	1.0	0.0	0.6	0.0	0.0	-0.1	0.0	0.1	0.0	1.1	2.2	1.6	0.0	*
91.0	1.2	0.0	0.7	0.0	0.0	-0.1	0.0	0.1	0.0	1.2	2.4	2.2	-0.4	*
92.0	1.0	0.0	0.8	0.0	0.0	0.0	0.0	0.1	0.0	1.2	2.2	2.2	-1.2	*
93.0	0.4	0.0	0.9	0.0	0.0	0.0	0.0	0.1	0.0	1.5	1.9	1.7	-1.6	*
94.0	-0.2	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	1.4	1.0	1.6	-2.0	*
95.0	-0.4	0.0	1.1	0.0	0.0	-0.1	0.0	0.0	0.0	1.3	1.0	1.7	-2.0	*
96.0	-0.3	0.0	1.2	0.0	0.0	-0.1	0.0	0.0	0.0	1.4	1.3	1.8	-1.9	*
97.0	-0.1	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.6	1.8	-1.7	*
98.0	0.1	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.6	1.8	-1.7	*
99.0	0.1	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.6	1.8	-1.7	*

GN/C										BETA NEG									
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS						
50.0	0.1	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	0.7	0.7	0.7	-0.6	0.7	-0.6
51.0	0.1	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	0.7	0.7	0.7	-0.6	0.7	-0.6
52.0	0.1	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.8	0.7	-0.6	0.7	0.7	0.7	-0.6	0.7	-0.6
53.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	-0.7	0.7	0.7	0.7	-0.7	0.7	-0.7
54.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.6	-0.7	0.6	0.6	0.6	-0.8	0.6	-0.8
55.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
56.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
57.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
58.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
59.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
60.0	-0.1	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
61.0	-0.2	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
62.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
63.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.6	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
64.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
65.0	-0.2	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
66.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
67.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
68.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.8	0.6	0.6	0.6	-0.8	0.6	-0.8
69.0	-0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.9	0.6	0.6	0.6	-0.9	0.6	-0.9
70.0	-0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.5	-0.9	0.6	0.6	0.6	-0.9	0.6	-0.9
71.0	-0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	0.5	-0.9	0.6	0.6	0.6	-0.9	0.6	-0.9
72.0	-0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	0.6	0.6	0.6	-0.9	0.6	-0.9
73.0	-0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	0.6	0.6	0.6	-0.9	0.6	-0.9
74.0	-0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.6	-0.9	0.6	0.6	0.6	-0.9	0.6	-0.9
75.0	-0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.7	-1.0	0.7	0.7	0.7	-1.0	0.7	-1.0
76.0	-0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.7	-1.1	0.7	0.7	0.7	-1.1	0.7	-1.1
77.0	-0.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.7	-1.1	0.7	0.7	0.7	-1.1	0.7	-1.1
78.0	-0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.7	-1.8	0.7	0.7	0.7	-1.8	0.7	-1.8
79.0	-0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.7	-2.5	0.7	0.7	0.7	-2.5	0.7	-2.5
80.0	-0.7	0.0	0.6	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.1	0.7	-3.0	0.7	0.7	0.7	-3.0	0.7	-3.0
81.0	-0.7	0.0	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.9	0.1	0.7	-3.3	0.7	0.7	0.7	-3.3	0.7	-3.3
82.0	-0.7	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.9	0.2	0.7	-3.3	0.7	0.7	0.7	-3.3	0.7	-3.3
83.0	-0.6	0.0	0.2	0.0	0.0	0.3	0.0	0.0	0.0	1.1	0.4	0.6	-3.2	0.7	0.7	0.7	-3.2	0.7	-3.2
84.0	-0.5	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	1.1	0.6	0.8	-3.0	0.7	0.7	0.7	-3.0	0.7	-3.0
85.0	-0.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	1.2	0.8	1.0	-2.6	0.7	0.7	0.7	-2.6	0.7	-2.6
86.0	-0.3	0.0	-0.2	0.0	0.0	0.3	0.0	0.0	0.0	1.3	1.0	1.0	-2.0	0.7	0.7	0.7	-2.0	0.7	-2.0
87.0	-0.1	0.0	-0.4	0.0	0.0	0.3	0.0	0.0	0.0	1.3	1.2	1.1	-0.9	0.7	0.7	0.7	-0.9	0.7	-0.9
88.0	0.2	0.0	-0.5	0.0	0.0	0.3	0.0	0.0	0.0	1.2	1.7	1.0	-0.5	0.7	0.7	0.7	-0.5	0.7	-0.5
89.0	0.5	0.0	-0.6	0.0	0.0	0.2	0.0	0.0	0.0	1.2	2.0	1.0	-0.2	0.7	0.7	0.7	-0.2	0.7	-0.2
90.0	0.8	0.0	-0.6	0.0	0.0	0.1	0.0	0.0	0.0	1.2	2.2	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0
91.0	1.0	0.0	-0.7	0.0	0.0	0.1	0.0	0.0	0.0	1.2	2.4	1.0	0.4	0.7	0.7	0.7	0.4	0.7	0.4
92.0	1.2	0.0	-0.7	0.0	0.0	0.1	0.0	0.0	0.0	1.2	2.4	1.0	0.4	0.7	0.7	0.7	0.4	0.7	0.4
93.0	1.0	0.0	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.2	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0
94.0	0.4	0.0	-0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.9	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0
95.0	-0.2	0.0	-1.0	0.0	0.0	0.1	0.0	0.0	0.0	1.4	1.5	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0
96.0	-0.4	0.0	-1.1	0.0	0.0	0.1	0.0	0.0	0.0	1.4	1.0	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0
97.0	-0.3	0.0	-1.2	0.0	0.0	0.2	0.0	0.0	0.0	1.3	1.0	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0
98.0	-0.1	0.0	-1.2	0.0	0.0	0.1	0.0	0.0	0.0	1.4	1.3	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0
99.0	0.1	0.0	-1.3	0.0	0.0	0.1	0.0	0.0	0.0	1.5	1.6	1.0	0.0	0.7	0.7	0.7	0.0	0.7	0.0

GN/C															BETA POS														
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS																
100.0	0.3	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.8	1.8	-1.5	*	*														
101.0	0.4	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.5	1.9	1.7	-1.3	*	*														
102.0	0.5	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.7	2.2	1.8	-1.3	*	*														
103.0	0.6	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	2.7	3.3	2.7	-2.2	*	*														
104.0	0.7	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	3.9	4.6	4.0	-3.3	*	*														
105.0	0.8	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	4.9	5.7	5.0	-4.2	*	*														
106.0	0.9	0.0	1.3	0.0	0.0	-0.1	0.0	0.0	0.0	5.3	6.1	5.4	-4.5	*	*														
107.0	0.9	0.0	1.2	0.0	0.0	-0.1	0.0	0.0	0.0	4.9	5.8	5.0	-4.1	*	*														
108.0	0.9	0.0	1.2	0.0	0.0	-0.1	0.0	0.0	0.0	4.0	4.9	4.1	-3.1	*	*														
109.0	0.9	0.0	1.2	0.0	0.0	-0.1	0.0	0.0	0.0	3.0	3.9	3.1	-2.2	*	*														
110.0	0.9	0.0	1.2	0.0	0.0	-0.1	0.0	0.0	0.0	2.2	3.0	2.3	-1.4	*	*														
111.0	0.8	0.0	1.1	0.0	0.0	-0.1	0.0	0.1	0.0	1.7	2.5	1.8	-1.0	*	*														
112.0	0.8	0.0	0.9	0.0	0.0	-0.1	0.0	0.1	0.0	1.6	2.4	1.7	-0.9	*	*														
113.0	0.8	0.0	0.7	0.0	0.0	-0.1	0.0	0.1	0.0	1.6	2.3	1.7	-0.9	*	*														
114.0	0.8	0.0	0.5	0.0	0.0	-0.2	0.0	0.1	0.0	1.7	2.5	1.8	-1.0	*	*														
115.0	0.8	0.0	0.4	0.0	0.0	-0.2	0.0	0.1	0.0	1.8	2.6	1.9	-1.1	*	*														
116.0	0.8	0.0	0.3	0.0	0.0	-0.2	0.0	0.1	0.0	1.8	2.5	1.9	-1.1	*	*														
117.0	0.7	0.0	0.3	0.0	0.0	-0.1	0.0	0.1	0.0	1.7	2.4	1.8	-1.0	*	*														
118.0	0.7	0.0	0.3	0.0	0.0	-0.1	0.0	0.1	0.0	1.5	2.2	1.6	-0.9	*	*														
119.0	0.6	0.0	0.3	0.0	0.0	-0.1	0.0	0.1	0.0	1.5	2.2	1.6	-0.9	*	*														
120.0	0.6	0.0	0.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	2.2	1.5	-1.0	*	*														
121.0	0.5	0.0	0.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	2.1	1.5	-1.0	*	*														
122.0	0.5	0.0	0.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	2.0	1.5	-1.0	*	*														
123.0	0.4	0.0	0.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	2.0	1.5	-1.0	*	*														
124.0	0.4	0.0	0.3	0.0	0.0	-0.1	0.0	0.0	0.0	1.6	2.0	1.5	-1.0	*	*														
125.0	-0.1	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	0.0	1.9	1.8	1.8	-3.3	*	*														
126.0	-1.2	0.0	1.0	0.0	0.0	-0.1	-0.6	0.1	-0.5	3.7	2.5	2.5	-3.7	*	*														
127.0	-1.2	0.0	1.0	0.0	0.0	-0.2	-0.6	0.1	-0.5	3.6	2.4	2.5	-3.7	*	*														
128.0	-1.3	0.0	1.0	0.0	0.0	-0.1	-0.6	0.1	-0.5	3.6	2.4	2.5	-3.7	*	*														
129.0	-1.3	0.0	1.0	0.0	0.0	-0.1	-0.6	0.1	-0.5	3.6	2.3	2.7	-4.0	*	*														
130.0	-1.3	0.0	0.9	0.0	0.0	-0.1	-0.6	0.1	-0.5	3.1	1.8	2.7	-4.0	*	*														
140.0	-1.0	0.0	0.9	0.0	0.0	-0.1	-0.5	0.1	-0.5	2.4	1.4	2.5	-3.5	*	*														
150.0	-0.7	0.0	0.8	0.0	0.0	-0.1	-0.5	0.1	-0.4	2.3	1.5	2.3	-3.1	*	*														
160.0	-0.7	0.0	0.8	0.0	0.0	-0.1	-0.5	0.1	-0.4	2.1	1.4	2.2	-2.9	*	*														
170.0	-0.7	0.0	0.7	0.0	0.0	-0.1	-0.4	0.1	-0.3	2.0	1.2	2.0	-2.7	*	*														
180.0	-0.7	0.0	0.6	0.0	0.0	-0.1	-0.4	0.1	-0.3	1.8	1.1	1.8	-2.6	*	*														
190.0	-0.7	0.0	0.6	0.0	0.0	-0.1	-0.4	0.1	-0.3	1.7	0.9	1.7	-2.4	*	*														
200.0	-0.7	0.0	0.5	0.0	0.0	-0.1	-0.3	0.1	-0.2	1.5	0.8	1.5	-2.3	*	*														
210.0	-0.7	0.0	0.5	0.0	0.0	-0.1	-0.3	0.1	-0.2	1.4	0.7	1.4	-2.1	*	*														
220.0	-0.7	0.0	0.4	0.0	0.0	-0.1	-0.3	0.0	-0.1	1.2	0.5	1.3	-2.0	*	*														
230.0	-0.7	0.0	0.4	0.0	0.0	-0.1	-0.2	0.0	-0.1	1.1	0.4	1.1	-1.8	*	*														
240.0	-0.7	0.0	0.3	0.0	0.0	-0.1	-0.2	0.0	-0.1	1.0	0.3	1.0	-1.7	*	*														
250.0	-0.7	0.0	0.3	0.0	0.0	0.0	-0.2	0.0	0.0	0.9	0.2	0.9	-1.6	*	*														
260.0	-0.7	0.0	0.3	0.0	0.0	0.0	-0.2	0.0	0.0	0.8	0.1	0.8	-1.5	*	*														
270.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	0.0	0.7	0.0	0.7	-1.4	*	*														
280.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	0.1	0.6	-0.1	0.6	-1.3	*	*														
290.0	-0.7	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.5	-0.2	0.5	-1.2	*	*														
300.0	-0.7	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.4	-0.3	0.4	-1.2	*	*														
310.0	-0.7	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.4	-0.4	0.4	-1.1	*	*														
320.0	-0.7	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.3	-0.4	0.3	-1.0	*	*														

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA NEG
100.0	0.3	0.0	-1.3	0.0	0.0	0.1	0.0	0.0	0.0	1.5	1.8	1.8	-1.5	*
101.0	0.4	0.0	-1.3	0.0	0.0	0.1	0.0	0.0	0.0	1.5	1.7	1.7	-1.3	*
102.0	0.5	0.0	-1.3	0.0	0.0	0.1	0.0	0.0	0.0	1.7	2.2	1.8	-1.3	*
103.0	0.6	0.0	-1.3	0.0	0.0	0.1	0.0	0.0	0.0	2.7	3.3	2.7	-2.2	*
104.0	0.7	0.0	-1.3	0.0	0.0	0.1	0.0	0.0	0.0	3.9	4.6	4.0	-3.3	*
105.0	0.8	0.0	-1.3	0.0	0.0	0.1	0.0	0.0	0.0	4.9	5.7	5.0	-4.2	*
106.0	0.9	0.0	-1.2	0.0	0.0	0.1	0.0	0.0	0.0	5.3	6.1	5.4	-4.5	*
107.0	0.9	0.0	-1.2	0.0	0.0	0.1	0.0	0.0	0.0	4.9	5.8	5.0	-4.1	*
108.0	0.9	0.0	-1.2	0.0	0.0	0.1	0.0	0.0	0.0	4.0	4.9	4.1	-3.1	*
109.0	0.9	0.0	-1.1	0.0	0.0	0.1	0.0	0.0	0.0	3.0	3.9	3.1	-2.2	*
110.0	0.9	0.0	-1.1	0.0	0.0	0.1	0.0	0.0	0.0	2.2	3.0	2.3	-1.4	*
111.0	0.8	0.0	-1.0	0.0	0.0	0.1	0.0	-0.1	0.0	1.7	2.5	1.8	-1.0	*
112.0	0.8	0.0	-0.9	0.0	0.0	0.1	0.0	-0.1	0.0	1.6	2.4	1.7	-0.9	*
113.0	0.8	0.0	-0.7	0.0	0.0	0.2	0.0	-0.1	0.0	1.7	2.3	1.7	-0.9	*
114.0	0.8	0.0	-0.5	0.0	0.0	0.2	0.0	-0.1	0.0	1.6	2.5	1.8	-1.0	*
115.0	0.8	0.0	-0.4	0.0	0.0	0.2	0.0	-0.1	0.0	1.8	2.6	1.9	-1.1	*
116.0	0.8	0.0	-0.3	0.0	0.0	0.2	0.0	-0.1	0.0	1.8	2.5	1.9	-1.1	*
117.0	0.7	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.7	2.4	1.8	-1.0	*
118.0	0.7	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.5	2.2	1.6	-0.9	*
119.0	0.6	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.5	2.2	1.6	-0.9	*
120.0	0.6	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.6	2.2	1.5	-1.0	*
121.0	0.5	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.6	2.1	2.0	-1.4	*
122.0	0.5	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.6	2.1	3.3	-2.8	*
123.0	0.4	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.6	2.0	3.3	-2.8	*
124.0	0.4	0.0	-0.3	0.0	0.0	0.2	0.0	0.0	0.0	1.6	2.0	3.2	-2.8	*
125.0	-0.1	0.0	-0.3	0.0	0.0	0.2	-0.5	0.0	-0.5	1.9	1.8	2.5	-3.7	*
126.0	-0.1	0.0	-0.3	0.0	0.0	0.1	0.4	-0.1	0.5	3.7	2.5	2.5	-3.7	*
127.0	-0.1	0.0	-0.3	0.0	0.0	0.1	0.4	-0.1	0.5	3.6	2.4	2.5	-3.7	*
128.0	-0.1	0.0	-0.3	0.0	0.0	0.2	0.4	-0.1	0.5	3.6	2.4	2.5	-3.7	*
129.0	-0.1	0.0	-0.3	0.0	0.0	0.1	0.4	-0.1	0.5	3.6	2.3	2.7	-4.0	*
130.0	-0.1	0.0	-0.3	0.0	0.0	0.1	0.4	-0.1	0.5	3.1	1.8	2.7	-4.0	*
140.0	-1.0	0.0	-0.9	0.0	0.0	0.1	0.5	-0.1	0.5	2.4	1.4	2.5	-3.5	*
150.0	-0.7	0.0	-0.8	0.0	0.0	0.1	0.4	-0.1	0.4	2.3	1.5	2.3	-3.1	*
160.0	-0.7	0.0	-0.7	0.0	0.0	0.1	0.4	-0.1	0.4	2.1	1.4	2.2	-2.9	*
170.0	-0.7	0.0	-0.7	0.0	0.0	0.1	0.4	-0.1	0.3	2.0	1.2	2.0	-2.7	*
180.0	-0.7	0.0	-0.6	0.0	0.0	0.1	0.4	-0.1	0.3	1.8	1.1	1.8	-2.6	*
190.0	-0.7	0.0	-0.5	0.0	0.0	0.1	0.3	-0.1	0.3	1.7	0.9	1.5	-2.3	*
200.0	-0.7	0.0	-0.5	0.0	0.0	0.1	0.3	-0.1	0.2	1.5	0.8	1.4	-2.1	*
210.0	-0.7	0.0	-0.4	0.0	0.0	0.1	0.3	-0.1	0.1	1.4	0.7	1.3	-2.0	*
220.0	-0.7	0.0	-0.4	0.0	0.0	0.1	0.3	-0.1	0.1	1.2	0.5	1.3	-2.0	*
230.0	-0.7	0.0	-0.4	0.0	0.0	0.1	0.2	-0.1	0.1	1.1	0.4	1.1	-1.8	*
240.0	-0.7	0.0	-0.3	0.0	0.0	0.1	0.2	-0.1	0.1	1.0	0.3	1.0	-1.7	*
250.0	-0.7	0.0	-0.3	0.0	0.0	0.1	0.2	-0.1	0.0	0.9	0.2	0.9	-1.6	*
260.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.2	-0.1	0.0	0.8	0.1	0.8	-1.5	*
270.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	-0.1	0.0	0.7	0.0	0.7	-1.4	*
280.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	-0.1	0.0	0.6	-0.1	0.6	-1.3	*
290.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.1	-0.1	0.0	0.5	-0.2	0.5	-1.2	*
300.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.1	-0.1	0.0	0.4	-0.3	0.4	-1.2	*
310.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.1	-0.1	0.0	0.4	-0.4	0.4	-1.1	*
320.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.0	0.3	-0.4	0.3	-1.0	*

GN/C										BETA POS									
TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS						
330.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	-0.4	0.3	-1.0						
340.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	-0.5	0.3	-1.0						
350.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	-0.4	0.3	-1.0						
360.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.3	-0.4	0.3	-1.1						
370.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.4	-0.4	0.4	-1.2						
380.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.3	0.4	-0.3	0.4	-1.2						
390.0	-0.7	0.0	-0.1	0.0	0.0	0.0	0.1	0.0	0.3	0.5	-0.3	0.5	-1.2						
400.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.3	0.5	-0.2	0.5	-1.2						
410.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.3	0.6	-0.2	0.6	-1.3						
420.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.3	0.6	-0.1	0.6	-1.3						
430.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.3	0.6	-0.1	0.7	-1.4						
440.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.3	0.7	0.0	0.7	-1.4						
450.0	-0.7	0.0	-0.2	0.0	0.0	0.0	0.1	0.0	0.4	0.8	0.0	0.7	-1.5						
460.0	-0.7	0.0	-0.3	0.0	0.0	0.0	0.1	0.0	0.4	0.8	0.1	0.8	-1.5						
470.0	-0.7	0.0	-0.3	0.0	0.0	0.0	0.1	0.0	0.4	0.8	0.2	0.9	-1.5						
480.0	-0.6	0.0	-0.3	0.0	0.0	0.0	0.1	0.0	0.4	0.8	0.2	0.9	-1.5						

TIME	NON VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS	BETA	NEG
330.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.3	-0.4	0.3	-1.0	*	*
340.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.3	-0.5	0.3	-1.0	*	*
350.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.3	-0.4	0.3	-1.0	*	*
360.0	-0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.3	-0.4	0.3	-1.1	*	*
370.0	-0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.2	0.3	-0.4	0.3	-1.1	*	*
380.0	-0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.3	0.4	-0.4	0.4	-1.1	*	*
390.0	-0.7	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	-0.3	0.4	-0.3	0.4	-1.2	*	*
400.0	-0.7	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	-0.3	0.5	-0.3	0.5	-1.2	*	*
410.0	-0.7	0.0	0.1	0.0	0.0	0.0	-0.1	0.0	-0.3	0.5	-0.2	0.5	-1.2	*	*
420.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-0.3	0.6	-0.2	0.6	-1.3	*	*
430.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-0.3	0.6	-0.1	0.6	-1.3	*	*
440.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-0.3	0.6	-0.1	0.7	-1.4	*	*
450.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-0.3	0.7	0.0	0.7	-1.4	*	*
460.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-0.4	0.8	0.0	0.7	-1.5	*	*
470.0	-0.7	0.0	0.2	0.0	0.0	0.0	-0.1	0.0	-0.4	0.8	0.1	0.8	-1.5	*	*
480.0	-0.6	0.0	0.3	0.0	0.0	0.0	-0.1	0.0	-0.4	0.8	0.2	0.9	-1.5	*	*

APPENDIX D—HEATING ANALYSIS DATA

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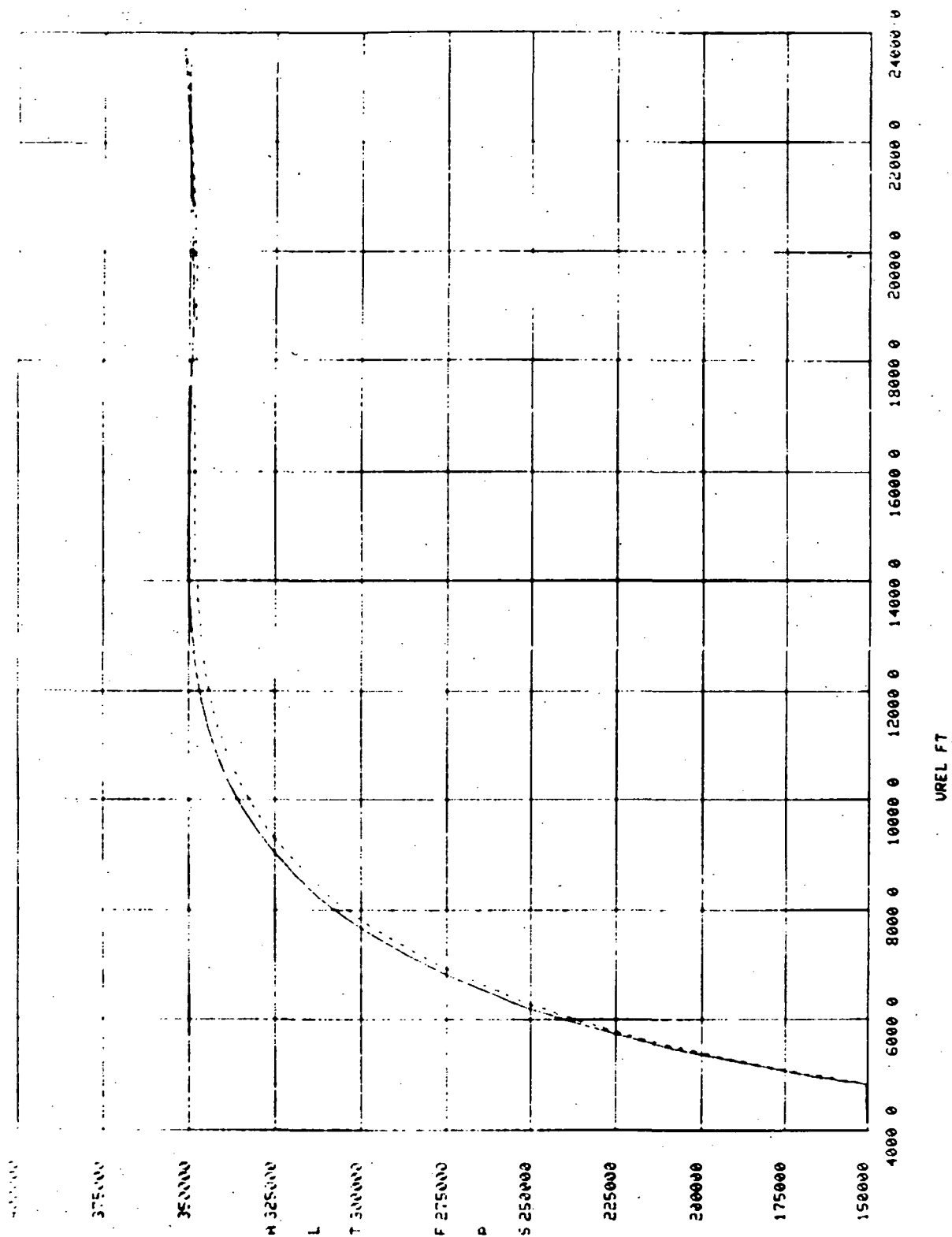


Figure D-1. Relative Velocity Versus Altitude (First Stage)

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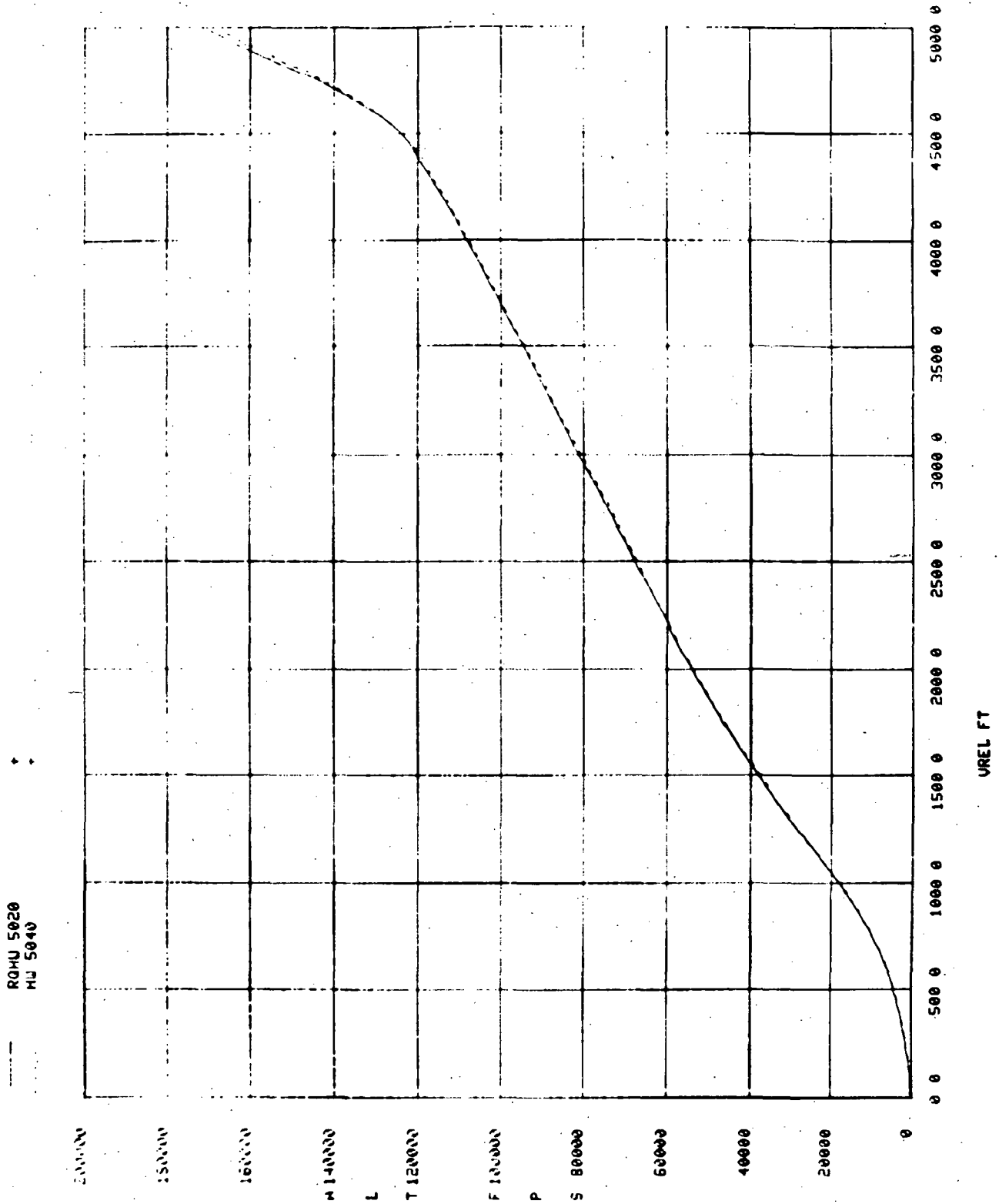


Figure D-2. Relative Velocity Versus Altitude (Second Stage)

RQHW, Max Heating Trajectory

POSITIVE RSS

NEGATIVE RSS

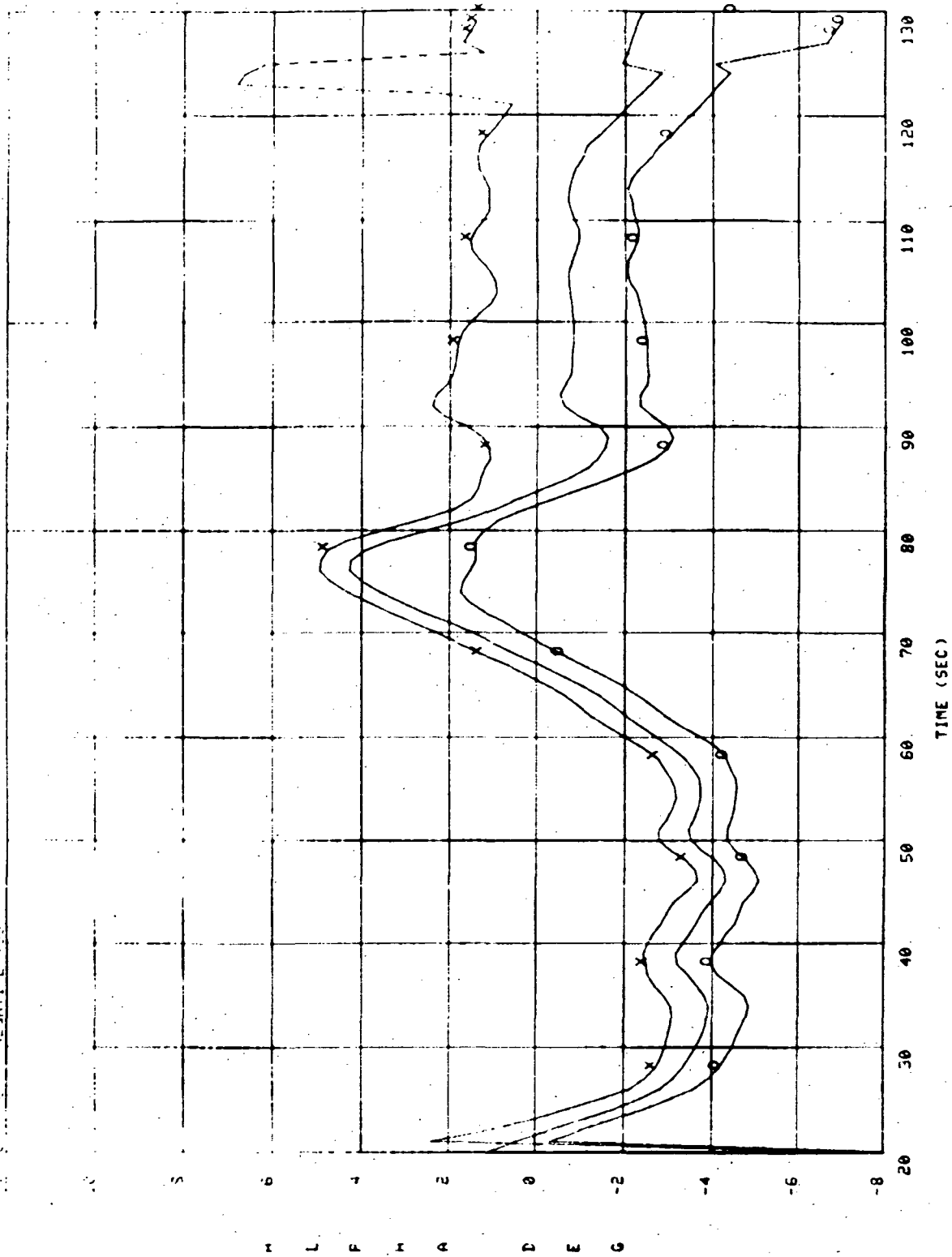


Figure D-3. Angle of Attack History for Maximum Heating RQHW Case with System RSS Dispersions Added

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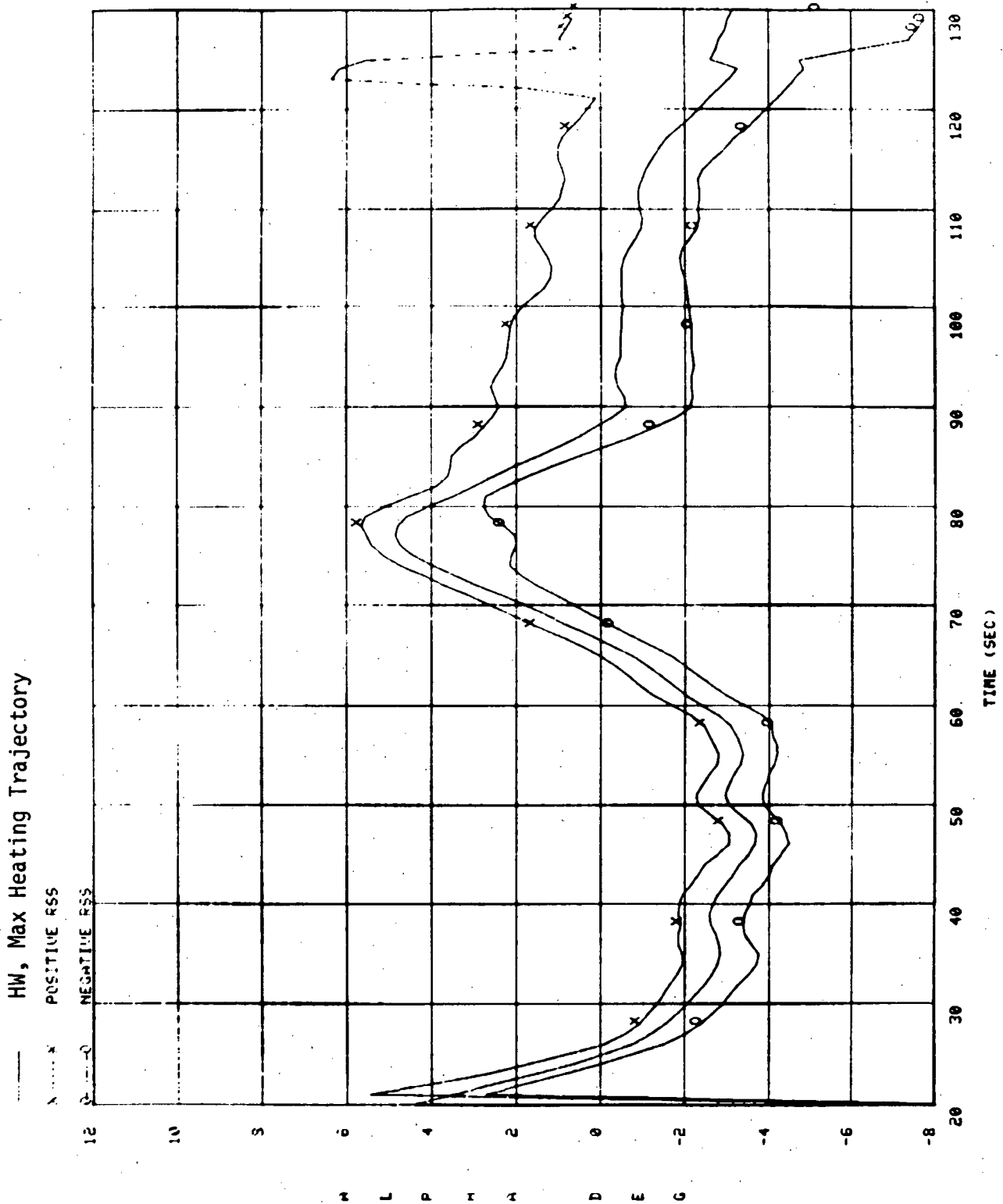


Figure D-4. Angle of Attack History for Maximum Heating HW Case with System RSS Dispersions Added

HM Max Aero Heating Trajectory

POSITIVE RSS
NEGATIVE RSS

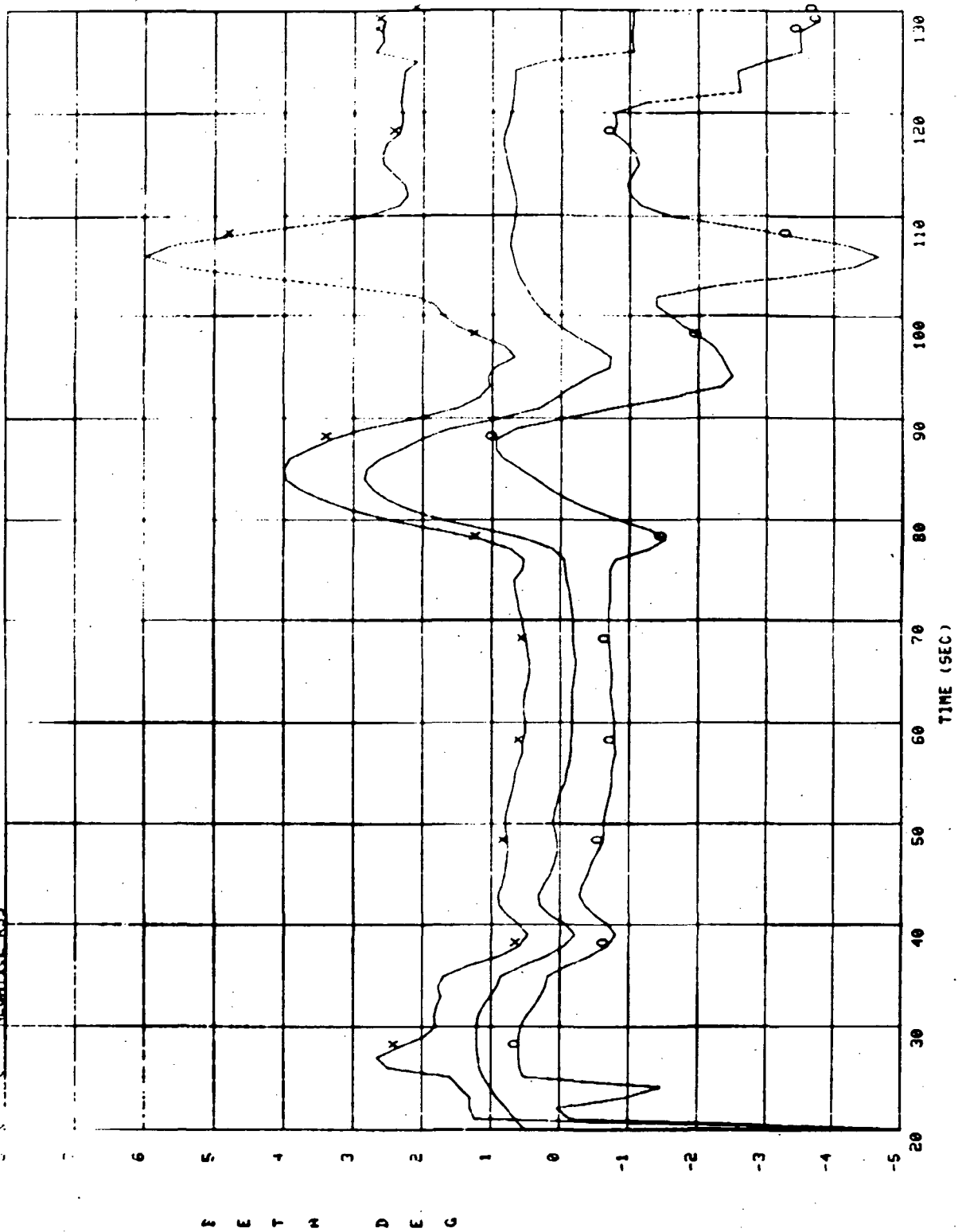


Figure D-5. Sideslip Angle History for Maximum Heating RQHW Case with Custom DCC Dimensions Added

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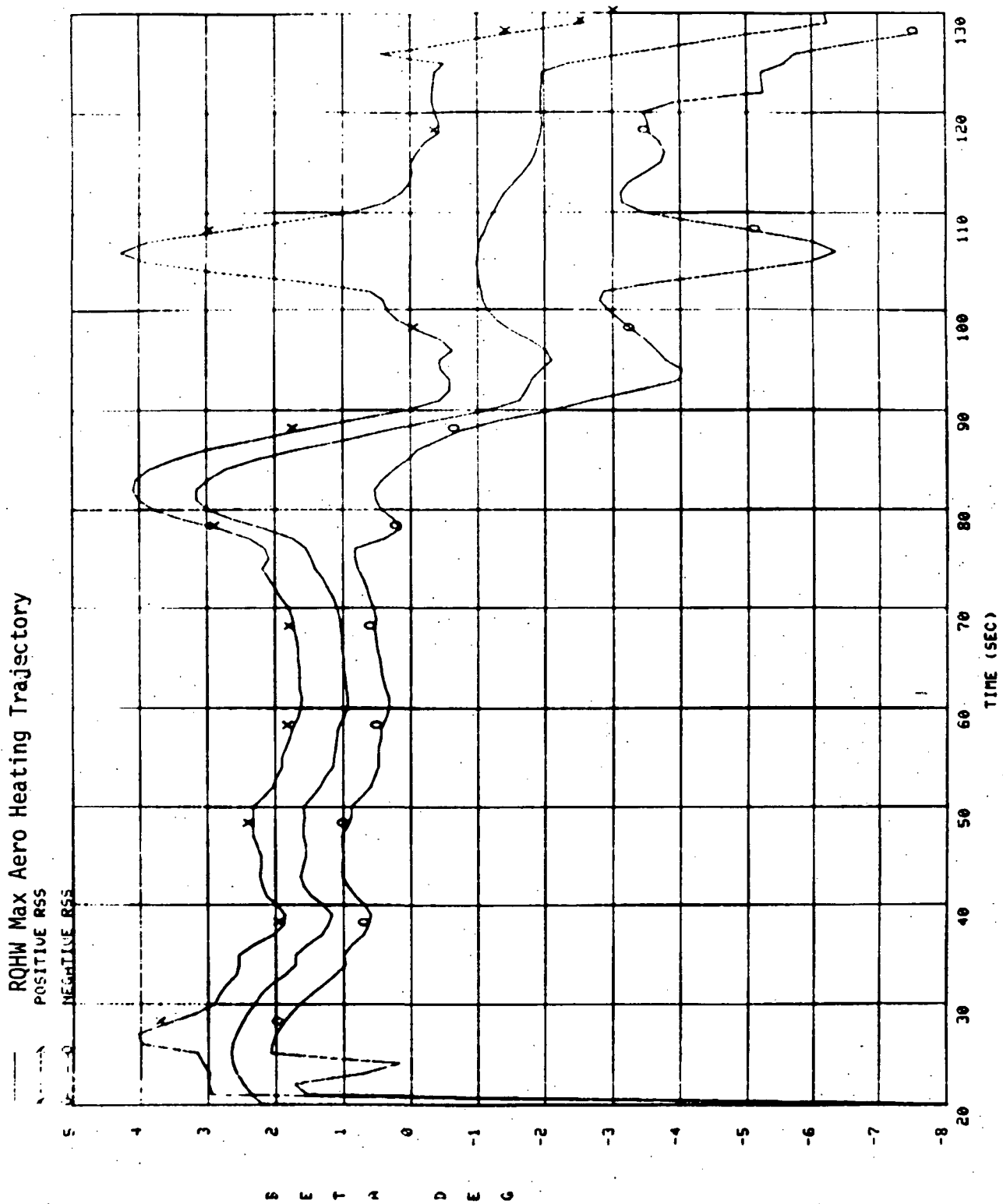


Figure D-6. Sideslip Angle History for Maximum Heating HW Case with System RSS Dispersions Added

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Table D-1. Maximum Aerodynamic Heating (RQHW) Trajectory Data

TIME (SEC.)	ALTITUDE (FEET)	REL VEL (FT/SEC)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	335.64	0.00	-90.08	23.86	-90.08	-90.08	23.86	23.86
5.00	565.06	109.23	-4.50	4.94	-3.67	-5.16	5.57	4.14
10.00	1457.41	244.94	2.69	3.03	3.85	1.60	0.46	-2.02
15.00	3041.29	393.16	4.83	0.88	5.58	3.69	1.91	-0.41
20.00	5393.15	553.46	1.13	2.22	3.09	0.34	2.81	1.37
25.00	8539.58	693.57	-2.36	2.67	-1.51	-3.03	3.16	2.08
30.00	12341.90	825.84	-3.62	2.32	-2.91	-4.45	3.92	1.66
35.00	16733.32	947.32	-3.80	1.72	-2.89	-4.72	3.54	1.01
40.00	21641.78	1061.67	-3.31	1.32	-2.52	-4.17	1.99	0.71
45.00	26967.48	1171.64	-4.13	1.56	-3.38	-4.90	2.22	1.02
50.00	32629.51	1293.32	-3.48	1.60	-2.74	-4.32	2.33	0.88
55.00	38555.91	1452.60	-3.71	1.14	-3.13	-4.53	1.91	0.50
60.00	44756.85	1647.35	-2.69	0.96	-1.98	-3.71	1.64	0.34
65.00	51348.74	1881.99	-1.02	1.02	-0.26	-1.96	1.67	0.48
70.00	58281.87	2155.32	1.51	1.10	2.33	0.35	1.82	0.57
75.00	65702.26	2459.75	4.02	1.49	4.73	1.71	2.11	0.84
80.00	73673.71	2775.98	2.52	3.02	3.54	1.22	3.80	0.45
85.00	82175.15	3097.08	-0.72	2.29	1.32	-1.68	3.49	0.07
90.00	91163.41	3425.79	-1.40	-1.11	1.61	-2.94	0.10	-2.06
92.00	94890.55	3559.77	-0.59	-1.71	2.43	-2.34	-0.56	-3.34
94.00	98686.80	3693.01	-0.63	-1.92	2.08	-2.48	-0.44	-4.00
96.00	102547.94	3825.09	-0.80	-2.01	1.89	-2.48	-0.61	-3.64
98.00	106469.53	3957.55	-0.81	-1.50	1.82	-2.48	-0.10	-3.32
100.00	110446.45	4089.91	-0.82	-1.14	1.57	-2.40	0.36	-2.94
102.00	114474.68	4218.21	-0.75	-1.04	1.08	-2.31	0.61	-2.86
104.00	118543.48	4331.82	-0.68	-0.98	0.99	-2.08	2.94	-4.96
106.00	122627.44	4413.47	-0.78	-0.98	1.32	-2.05	4.30	-6.37
108.00	126699.16	4471.21	-0.95	-1.08	1.56	-2.27	2.91	-5.16
110.00	130742.23	4515.65	-0.84	-1.22	1.25	-2.24	0.93	-3.46
112.00	134746.17	4551.67	-0.70	-1.40	1.12	-2.13	0.15	-3.10
114.00	138703.55	4581.79	-0.79	-1.67	1.74	-2.14	0.00	-3.47
116.00	142609.80	4603.76	-1.02	-1.86	1.39	-2.58	-0.08	-3.76
118.00	146463.92	4633.08	-1.37	-1.93	1.17	-2.99	-0.41	-3.57
120.00	150270.63	4673.74	-1.85	-1.93	0.79	-3.46	-0.35	-3.46
122.00	154032.84	4710.15	-2.33	-1.94	2.23	-3.92	-0.33	-5.25
124.00	157751.19	4747.29	-2.80	-1.96	6.67	-4.38	-0.36	-5.15
126.00	161425.80	4785.39	-2.05	-3.29	1.24	-10.27	1.46	-5.74
128.00	165055.44	4824.42	-2.20	-5.13	1.56	-6.02	-1.49	-7.59
130.00	168643.09	4864.18	-2.38	-6.16	1.28	-4.47	-3.08	-8.87
140.00	185893.86	5074.18	-3.62	-5.83	-0.50	-5.74	-1.44	-8.28
150.00	202047.58	5301.44	-4.88	-5.47	-1.78	-6.67	-3.20	-7.79
160.00	217127.00	5545.15	-5.95	-5.15	-3.15	-7.59	-3.01	-7.31
170.00	231160.27	5804.84	-6.86	-4.84	-4.30	-8.38	-2.87	-6.83
180.00	244176.78	6080.22	-7.61	-4.55	-5.27	-9.02	-3.74	-6.38
190.00	256206.84	6371.03	-8.22	-4.27	-6.10	-9.53	-2.62	-5.95
200.00	267281.91	6677.16	-8.73	-4.00	-6.77	-9.95	-2.49	-5.54
210.00	277434.53	6993.63	-9.07	-3.75	-7.28	-10.20	-2.38	-5.15
220.00	286699.03	7335.59	-9.27	-3.50	-7.65	-10.33	-2.27	-4.77
230.00	295106.59	7683.33	-9.36	-3.27	-7.90	-10.34	-2.17	-4.41
240.00	302695.25	8057.22	-9.35	-3.05	-8.04	-10.25	-2.07	-4.07
250.00	309499.84	8442.79	-9.26	-2.84	-8.07	-10.10	-1.97	-3.75
260.00	315557.16	8845.64	-9.04	-2.65	-7.98	-9.81	-1.88	-3.44
270.00	320904.91	9266.53	-8.73	-2.46	-7.80	-9.44	-1.79	-3.15
280.00	325561.84	9706.33	-8.34	-2.28	-7.53	-8.99	-1.70	-2.86
290.00	329627.94	10166.04	-7.87	-2.11	-7.14	-8.46	-1.62	-2.63
300.00	333064.59	10646.82	-7.36	-1.95	-6.64	-7.90	-1.53	-2.39

ORIGINAL PAGE IS
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Table D-1. Maximum Aerodynamic Heating (RQHW)
Trajectory Data (Concluded)

TIME (SEC.)	ALTITUDE (FEET)	REL VEL (FT/SEC)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
310.00	335994.59	11149.96	-6.76	-1.88	-6.27	-7.24	-1.44	-2.17
320.00	338482.47	11676.96	-6.89	-1.66	-5.42	-6.53	-1.35	-1.97
330.00	340354.50	12223.51	-5.37	-1.52	-4.71	-5.76	-1.24	-1.88
340.00	341859.28	12809.52	-4.63	-1.39	-3.97	-4.99	-1.12	-1.66
350.00	343067.84	13419.17	-3.82	-1.27	-3.17	-4.18	-0.98	-1.51
360.00	343974.03	14060.92	-2.97	-1.15	-2.34	-3.37	-0.84	-1.45
370.00	344615.13	14737.64	-2.10	-1.04	-1.47	-2.56	-0.71	-1.38
380.00	345072.31	15452.59	-1.21	-0.94	-0.58	-1.75	-0.57	-1.30
390.00	345411.56	16209.58	-0.32	-0.80	0.31	-0.94	-0.42	-1.26
400.00	345704.28	17013.03	0.57	-0.70	1.20	-0.13	-0.27	-1.21
410.00	346028.59	17863.19	1.45	-0.60	2.13	0.66	-0.12	-1.16
420.00	346470.09	18781.28	2.23	-0.54	2.93	1.43	0.01	-1.12
430.00	347102.16	19722.89	3.09	-0.47	3.71	2.22	0.14	-1.08
440.00	347933.50	20667.65	3.79	-0.41	4.44	2.78	0.24	-1.07
450.00	348965.09	21612.66	4.39	-0.30	5.02	3.28	0.37	-1.03
460.00	350209.94	22563.04	4.87	-0.25	5.51	3.70	0.50	-0.99
470.00	351667.88	23503.65	5.18	-0.17	5.86	3.97	0.62	-0.97
480.00	353437.78	24461.02	5.24	-0.06	6.01	3.99	0.76	-0.92
490.00	355477.44	25382.02	5.42	-0.23	5.42	5.42	-0.23	-0.20

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Table D-2. Maximum Aerodynamic Heating (HW) Trajectory Data

TIME (SEC.)	ALTITUDE (FEET)	REL VEL (FT/SEC)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	335.64	0.00	-90.64	74.41	-90.64	-90.64	74.41	74.41
5.00	585.37	109.18	2.38	12.93	3.21	1.72	13.56	12.13
10.00	1459.30	244.87	8.39	5.53	9.55	7.30	5.97	4.53
15.00	3046.27	393.42	9.51	-1.35	10.26	8.38	-0.31	-2.63
20.00	5407.87	554.17	4.43	0.51	6.29	3.64	1.10	-0.34
25.00	8555.59	699.31	-0.13	1.12	0.72	-0.80	1.61	0.50
30.00	12365.17	825.81	-2.04	1.22	-1.03	-2.87	1.82	0.56
35.00	16764.15	943.50	-2.82	0.86	-1.91	-3.74	1.71	0.17
40.00	21670.63	1057.96	-2.65	-0.07	-1.87	-3.51	0.60	-0.69
45.00	26985.09	1166.65	-3.49	0.15	-2.74	-4.26	0.81	-0.39
50.00	32605.04	1283.91	-3.03	0.12	-2.29	-3.87	0.83	-0.62
55.00	38516.65	1443.95	-3.36	-0.09	-2.78	-4.18	0.67	-0.74
60.00	44707.46	1637.97	-2.38	-0.18	-1.67	-3.40	0.52	-0.78
65.00	51200.46	1871.66	-0.75	-0.21	0.01	-1.69	0.45	-0.76
70.00	58072.10	2146.27	1.83	-0.18	2.65	0.67	0.54	-0.71
75.00	65435.20	2450.78	4.44	-0.07	5.15	2.13	0.54	-0.70
80.00	73370.71	2766.76	4.09	1.70	5.11	2.79	0.51	-0.81
85.00	81837.82	3080.03	1.51	2.80	3.55	0.54	0.02	0.61
90.00	90791.38	3416.19	-0.57	0.91	2.44	-2.11	0.12	-0.04
92.00	94493.95	3551.37	-0.40	0.06	2.02	-2.14	0.21	-1.57
94.00	98274.83	3684.78	-0.35	-0.42	2.06	-2.20	0.07	-2.49
96.00	102112.16	3813.08	-0.46	-0.71	2.23	-2.14	0.69	-2.34
98.00	106007.70	3940.76	-0.45	-0.20	2.17	-2.13	0.20	-2.01
100.00	109956.35	4081.34	-0.50	0.22	1.88	-2.09	0.72	-1.91
102.00	113954.11	4210.85	-0.47	0.45	1.76	-2.03	0.10	-1.37
104.00	117990.43	4324.65	-0.48	0.62	1.19	-1.88	0.54	-3.31
106.00	122040.48	4405.48	-0.65	0.72	1.34	-1.93	0.99	-4.64
108.00	126077.46	4464.36	-0.93	0.75	1.38	-2.26	0.74	-3.31
110.00	130085.31	4503.95	-0.90	0.68	1.18	-2.31	0.83	-1.59
112.00	134053.73	4543.08	-0.89	0.68	0.93	-2.32	0.24	-1.20
114.00	137975.53	4575.28	-1.07	0.76	0.55	-2.43	0.43	-1.01
116.00	141846.25	4602.30	-1.38	0.30	1.02	-2.94	0.61	1.00
118.00	145663.97	4631.64	-1.80	0.83	0.74	-3.42	0.35	-0.77
120.00	149435.50	4667.30	-2.31	0.75	0.32	-3.92	0.33	-0.74
122.00	153162.75	4703.71	-2.79	0.71	1.77	-4.39	0.32	-2.61
124.00	156846.31	4740.86	-3.26	0.67	6.22	-4.84	0.28	-2.51
126.00	160486.42	4773.94	-2.73	-1.05	0.56	-10.95	0.70	-3.50
128.00	164082.25	4817.93	-2.92	-1.04	0.64	-7.55	0.60	-3.41
130.00	167633.80	4857.73	-3.12	-1.04	0.54	-5.21	0.06	-5.71
140.00	184732.13	5067.80	-4.29	-1.08	-1.16	-6.40	0.31	-3.53
150.00	200746.31	5294.98	-5.47	-1.05	-2.38	-7.26	0.22	-3.36
160.00	215701.41	5533.47	-6.49	-1.03	-3.69	-8.13	0.10	-3.20
170.00	229625.05	5797.81	-7.35	-1.01	-4.79	-8.87	0.96	-3.02
180.00	242546.30	6072.73	-8.06	-0.96	-5.72	-9.47	0.82	-2.82
190.00	254495.16	6363.01	-8.63	-0.96	-6.51	-9.94	0.70	-2.64
200.00	265502.81	6662.52	-9.11	-0.91	-7.15	-10.33	0.58	-2.47
210.00	275601.56	6982.32	-9.41	-0.91	-7.62	-10.55	0.46	-2.31
220.00	284824.50	7323.56	-9.59	-0.93	-7.97	-10.65	0.35	-2.15
230.00	293205.59	7677.54	-9.66	-0.89	-8.19	-10.64	0.24	-2.00
240.00	300779.59	8043.64	-9.61	-0.85	-8.21	-10.52	0.14	-1.81
250.00	307522.16	8430.40	-9.50	-0.80	-8.21	-10.34	0.04	-1.70
260.00	313649.75	8832.42	-9.26	-0.82	-8.21	-10.04	-0.05	-1.51
270.00	319019.78	9252.49	-8.94	-0.81	-8.00	-9.65	-0.13	-1.50
280.00	323730.63	9691.46	-8.53	-0.80	-7.71	-9.18	-0.22	-1.40
290.00	327821.91	10153.35	-8.04	-0.75	-7.31	-8.63	-0.29	-1.30
300.00	331354.53	10632.31	-7.51	-0.78	-6.79	-8.05	-0.36	-1.22

Table D-2. Maximum Aerodynamic Heating (HW) Trajectory Data (Concluded)

TIME (SEC.)	ALTITUDE (FEET)	REL VEL (FT/SEC)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
310.00	33431.88	11131.66	-1.23	-0.77	-6.20	-7.37	-0.42	-1.15
320.00	336734.81	11653.89	-1.11	-0.77	-5.54	-6.64	-0.46	-1.07
330.00	338832.03	12213.69	-1.41	-0.77	-4.81	-5.87	-0.49	-1.07
340.00	340470.28	12783.98	-1.71	-0.76	-4.05	-5.07	-0.50	-1.07
350.00	341799.75	13393.93	-3.89	-0.77	-3.23	-4.25	-0.48	-1.07
360.00	342793.28	14043.03	-0.03	-0.77	-2.39	-3.43	-0.46	-1.07
370.00	343505.97	14713.11	-0.14	-0.77	-1.61	-2.60	-0.44	-1.11
380.00	344090.60	15433.46	-1.23	-0.76	-0.89	-1.77	-0.41	-1.11
390.00	344533.66	16183.86	-0.33	-0.77	0.31	-0.95	-0.35	-1.20
400.00	344990.72	16983.76	0.58	-0.76	1.21	-0.12	-0.30	-1.20
410.00	345392.78	17844.36	1.43	-0.76	2.16	0.69	-0.25	-1.20
420.00	345943.00	18755.91	2.34	-0.76	2.97	1.48	-0.20	-1.20
430.00	346663.03	19697.96	3.14	-0.76	3.77	2.17	-0.16	-1.30
440.00	347616.91	20642.16	3.86	-0.76	4.51	2.85	-0.13	-1.40
450.00	348735.88	21583.64	4.48	-0.76	5.11	3.37	-0.08	-1.40
460.00	350054.38	22535.67	4.99	-0.78	5.62	3.82	-0.03	-1.50
470.00	351567.78	23483.22	5.21	-0.76	5.99	4.09	0.02	-1.50
480.00	353365.16	24437.92	5.38	-0.72	6.15	4.13	0.10	-1.50
490.00	355423.25	25361.19	5.57	-0.96	5.67	5.57	-0.36	-0.96

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